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His-34 to Tyr-39, AR033: 7, AR055: 7, Pro-113 to Glu-119. AR060: 5, AR096: 5, AR096: 5, AR060: 5, AR096: 4, AR052: 5, AR104: 4, AR089: 4, AR061: 4, AR039: 2 L0751: 16, H0617: 14, L0766: 13, L0731: 9, L0743: 8, H0253: 7, H0052: 7, L0742: 6, L0759: 6, H0521: 6, L0742: 6, L0759: 6, H0587: 5, H0618: 5, L0764: 5, L0758: 5, H0039: 3, S0210: 3, L0800: 3, L0666: 3, L0747: 3, L0666: 3, L0747: 3, L0753: 3, L0757: 3, H0483: 2, H0494: 2,	Thr-499 to Arg-504. 1, S0278: 1, H0318: 1, H0199: 1, S0050: 1, S0051: 1, H0181: 1, S0036: 1, H0264: 1, S0144: 1, S0044: 1 and S0027: 1. AR055: 11, AR060: 9, AR033: 7, AR061: 9, AR052: 6, AR053: 6, AR096: 6, AR089: 5, AR104: 5, AR039: 4 H0306: 1, H0637: 1, H0187: 1 and S0106: 1.
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43), AR096: 5, AR033: 5,	Asn-134 to Lys-139,		777				
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969	968	967	966	
HHENP77	HNGKC65	HTLJK34	HSDFD90	
880178	880142	880137	880039	
979	978	977	976	
770 - 2893	1207 - 1671	177 - 782	866 - 1399	
2384	2383	2382	2381	
Glu-124 to Leu-131, Asp-266 to Pro-271, Asn-273 to Phe-280, Glu-315 to Arg-321,	Ala-97 to His-105.	Thr-125 to Gly-141, Pro-151 to Leu-156, Cys-160 to Lys-169, Lys-175 to Lys-187.	Gln-9 to Gly-15.	
AR039: 11, AR033: 7, AR096: 6, AR053: 5, AR052: 5, AR104: 4, AR089: 4, AR060: 4,	Ala-97 to His-105. AR033: 1, AR039: 1, AR089: 1, AR060: 1, AR096: 1, AR053: 1, AR061: 0, AR052: 0, AR055: 0, AR104: 0 H0687: 2, S0428: 1, H0682: 1 and S0032: 1.	Thr-125 to Gly-141, AR055: 10, AR060: 6, Pro-151 to Leu-156, AR061: 5, AR033: 5, Cys-160 to Lys-169, AR089: 4, AR096: 4, Lys-175 to Lys-187. AR053: 4, AR052: 3, AR104: 3, AR039: 2 L0758: 5, H0618: 1, H0616: 1 and L0794: 1.	1 au	1, L0598: 1, L0774: 1, \$0428: 1, H0144: 1 and \$0126: 1.
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880199	
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1031 HWHQN1	HOSPA48	НКСВЈ74
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	L0601: 4, S0360: 3, H0036:
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	7, H0574: 6, L0764: 6,
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	AR033: 2 AR104: 1

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1, N0003: 1, S0050:	H0009: 1,	
9: 1, L0041: 1,	1, H0439:	
1, H0231: 1, H0121:	H0597: 1,	
5: 1, H0596: 1,	1, H0205:	
1, H0085: 1, H0183:	H0505: 1,	
0: 1, T0048: 1,	1, H0390:	
1, H0122: 1, H0004:	Т0112: 1,	
5: 1, H0270: 1,	1, H0485:	
1, H0331: 1, H0491:	H0362: 1,	
2: 1, H0600: 1,	1, H0282:	
1, H0409: 1, H0403:	H0357: 1,	
0: 1, H0392: 1,	1, S0220:	
1, H0411: 1, L0394:	H0351: 1,	_
15: 1, S6026: 1,	1, H0645:	
1, H0722: 1, H0208:	L0428: 1,	

		H0717: 1 and S0420: 1.							
	-	H0081: 2, S0192: 2,							
		AR053: 0, AR052: 0	Leu-220 to Gly-225.						
			Ala-124 to Pro-130,		_				
155		AR055: 1, AR033: 1,	Pro-79 to Arg-87,						•
1-17, 139-		AR060: 1, AR089: 1,	Cys-48 to His-55,						
193-220,		AR096: 1, AR104: 1,	Gln-26 to Ala-39,	2820	38-823	1415	897919	1405 HUCPE29	1405
		H0506: 1.							
		S0042: 1, S0384: 1 and		_					
		1, S0242: 1, S0276: 1,							
	17:	L0581: 1, L0361: 1, H02							
	_	1, S0394: 1, L0485: 1,							
	80:	L0609: 1, L0612: 1, L07							
		1, H0187: 1, H0478: 1,							
	710:	S0428: 1, H0683: 1, H0710:					_		
		1, L0809: 1, S0052: 1,							
	83:	L0542: 1, L0526: 1, L07							
		1, L0527: 1, L0636: 1,							
	28:	L0661: 1, L0629: 1, L06							
		1, L0776: 1, L0606: 1,			•				
	51:	L0561: 1, L0650: 1, L0651:							
		1, L0765: 1, L0773: 1,							
	74:	L0772: 1, L0373: 1, L0374:							

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[0056] The first column in Table 1 provides the gene number in the application corresponding to the clone identifier. The second column in Table 1 provides a unique "Clone ID MO:Z" for a cDMA clone related to each contig sequence disclosed in Table 1. This clone ID references the cDMA clone which contains at least the 5' most sequence of the assembled contig and at least a portion of SEQ ID MO:X was determined by directly sequencing the referenced clone. The reference clone may have less. In the vast majority of cases, described in the sequence listing or the clone may have less. In the vast majority of cases, however, the clone is believed to encode a full-length polypeptide. In the case where a clone is not full-length, a full-length cDMA can be obtained by methods described clone is not full-length, a full-length cDMA can be obtained by methods described

elsewhere herein.

[0057] The third column in Table 1 provides a unique "Contig ID" identification for each contig sequence. The fourth column provides the "SEQ ID NO:" identifier for each of the contig polynucleotide sequences disclosed in Table 1. The fifth column, "ORF polynucleotide sequence "SEQ ID NO:X" that delineate the preferred open reading frame polynucleotide sequence "SEQ ID NO:X" that delineate the preferred open reading frame polynucleotide sequence listing and referenced in Table 1, column 6, as SEQ ID NO:Y. Where the nucleotide position number "From", the preferred ORF is the reverse complement of the referenced number "From", the preferred ORF is the reverse complement of the referenced number "From", the preferred ORF is the reverse complement of the referenced

polynucleotide sequence. The sixth column in Table 1 provides the corresponding SEQ ID NO:Y for the polypeptide sequence encoded by the preferred ORF delineated in column 5. In one embodiment, the invention provides an amino acid sequence comprising, or alternatively consisting of, a polypeptide encoded by the portion of SEQ ID NO:X delineated by "ORF consisting of, a polypeptide encoded by the portion of SEQ ID NO:X delineated by "ORF (From-To)". Also provided are polynucleotides encoding such amino acid sequences and

the complementary strand thereto.

[0059] Column 7 in Table 1 lists residues comprising epitopes contained in the polypeptides encoded by the preferred ORF (SEQ ID NO:Y), as predicted using the algorithm of Jameson and Wolf, (1988) Comp. Appl. Biosci. 4:181-186. The Jameson-Wolf antigenic analysis was performed using the computer program PROTEAN (Version 3.11 for the Power MacIntosh, DNASTAR, Inc., 1228 South Park Street Madison, WI). In specific embodiments, polypeptides of the invention comprise, or alternatively consist of, at least one, two, three, four, five or more of the predicted epitopes as described in Table at least one, two, three, four, five or more of the predicted epitopes as described in Table

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I. It will be appreciated that depending on the analytical criteria used to predict antigenic

polynucleotide of the invention or to identify polynucleotides which show predominant tissue(s) which show a predominant expression pattern of the corresponding skill in the art could routinely use this information to identify normal and/or diseased the duplicate values, following background subtraction and probe normalization. One of different hybridizations. The value presented after "[array code]:" represents the mean of total signal generated from each array was used to normalize gene expression between the represented on the array. A local background signal subtraction was performed before the phosphor signal generated from the probe hybridized to each of the gene targets reported as Phosphor Stimulating Luminescence (PSL) which reflects the level of from each gene target, was measured using a Phosphorimager. Gene expression was employed to remove non-specific hybrids from the array. The remaining signal, emanating prime reverse transcription. After hybridization, high stringency washing conditions were cell lines. Probe synthesis was performed in the presence of 37 dCTP, using oligo(dT) to probes were generated from total RNA extracted from a variety of different tissues and was assayed through hybridization of first strand cDNA probes to the DNA array. cDNA were amplified by PCR and then transferred, in duplicate, onto the array. Gene expression information generated using DNA array technology. Utilizing this technology, cDNAs tissue/cell source identifier codes in which the first two letters are "AR" designate to the reference polynucleotide sequence was identified in the tissue/cell source. Those column 8 (following the colon) represents the number of times a sequence corresponding those identifier codes in which the first two letters are not "AR", the second number in source identifier code corresponding to the code and description provided in Table 4. For invention. The first number in column 8 (preceding the colon), represents the tissue/cell cells, and/or cell line libraries which predominantly express the polynucleotides of the combined with the information provided in Table 4 and used to determine the tissues, each of the contig sequences (SEQ ID NO:X) disclosed in Table 1, which can routinely be Column 8 in Table 1 provides an expression profile and library code: count for [0900] determinants, the exact address of the determinant may vary slightly.

and/or specific tissue and/or cell expression.

[0061] Column 9 in Table 1 provides a chromosomal map location for certain polynucleotides of the invention. Chromosomal location was determined by finding exact

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matches to EST and cDNA sequences contained in the NCBI (National Center for Biotechnology Information) UniGene database. Each sequence in the UniGene database is assigned to a "cluster"; all of the ESTs, cDNAs, and STSs in a cluster are believed to be derived from a single gene. Chromosomal mapping data is often available for one or more sequence(s) in a UniGene cluster; this data (if consistent) is then applied to the cluster as a sequence(s) in a UniGene cluster; this data (if consistent) is then applied to the cluster as a sequence(s) in a UniGene cluster; this data (if consistent) is then applied to the cluster as a sequence(s) in a UniGene cluster; this data (if consistent) is then applied to the cluster as a

sequence by determining its identity with a mapped UniGene cluster. [10062] A modified version of the computer program BLASTN (Altshul et al., J. Mol. Biol. 215:403-410 (1990); and Gish and States, Nat. Genet. 3:266-272 (1993)) was used to search the UniGene database for EST or cDNA sequences that contain exact or near-exact matches to a polynucleotide sequence of the invention (the 'Query'). A sequence from the UniGene database (the 'Subject') was said to be an exact match if it contained a segment of 50 nucleotides in length such that 48 of those nucleotides were in the same order as found in the Query sequence. If all of the matches that met this criteria were in the same order as UniGene cluster, and mapping data was available for this cluster, it is indicated in Table I under the heading "Cytologic Band". Where a cluster had been further localized to a distinct cytologic band, that band is disclosed; where no banding information was available, but the gene had been localized to a single chromosome, the chromosome is available, but the gene had been localized to a single chromosome, the chromosome is

Once a presumptive chromosomal location was determined for a polynucleotide of the invention, an associated disease locus was identified by comparison with a database of diseases which have been experimentally associated with genetic loci. The database used was the Morbid Map, derived from OMIMTM (supra). If the putative chromosomal location of a polynucleotide of the invention (Query sequence) was associated with a disease in the Morbid Map database, an OMIM reference identification number was noted in column 10, Table 1, labelled "OMIM Disease Reference(s)". Table 5 is a key to the OMIM reference identification numbers (column 1), and provides a description of the associated disease in Column 2.

ADLE 4

. 100/	1	22.78	STITE OF THE STATE	protein [Homo sapiens]			,	
1067	7/2	00%	emblCAR66552 11	(AL136617) hypothetical	blastx.2	119	685495	HCE1U38
				norvegicus]				
1392	7	97%	emb CAA11566.1	(AJ223830) ARE1 [Rattus	blastx.2	115	684309	HTHCM28
			199	protein.				
447	112	41%	sp AAG29199 AAG29	Hypothetical 13.0 kDa	blastx.2	114	684293	HMCFA76
1683	238	99%	sp Q9NRG3 Q9NRG3	GK001.	blastx.2	111	678819	HLJDK82
			540	clone LNG07220.				
1802	954	96%	sp BAB15540 BAB15	CDNA: FLJ23091 fis,	blastx.2	107	672653	HAIDX85
			1509_1	[Homo sapiens]				
520	62	100%	gb AAF29124.1 AF16	(AF161509) HSPC160	blastx	87	645268	HEBAE43
				protein [Homo sapiens]				
1193	15	92%	emb CAB66878.1	(AL136944) hypothetical	blastx.2	86	645267	HISBE12
				NET-1 [Homo sapiens]				
888	169	81%	gb AAC17119.1	(AF065388) tetraspan	blastx.2	84	638339	HKMAA36
			907	HEMBA1005852.				
783	322	89%	sp BAB13907 BAB13	CDNA FLJ11773 fis, clone	blastx.2	83	638229	H6ESA95
			553					
722	351	99%	sp AAG35553 AAG35	PRO2730.	blastx.2	82	638175	HLHSC60
516	358	26%						
489	280	91%						
296	ယ	100%		[Escherichia coli]				
1027	482	%86	emb CAA57653.1	AmpG-signal transducer	blastx.2	43	562775	HMAGF64
			0930_1	[Homo sapiens]				
7	117	78%	gb AAF24045.1 AF09	(AF090930) PRO0478	blastx.2	14	465120	HLTDP38
		Identity				NO:X		
	From	Percent	Number		Method	Ħ	Ð.	NO:Z
NT To	Z	Score/	PFam/NR Accession	PFam/NR Description	Analysis	SEQ	Contig	Clone ID

	HSHBF13		HTEIA85		HMGBP83		HTAAT39					HHGBS74			HE8NL29			HSRFP52			HSDJN50		HDFAB91		HMEIU36	
				ļ																						
	778087		778081		759888		753289					753235			750243			745408			740786		731889		708053	
	265		264		227		216					215			207			202			187		173		135	
<u>,</u>	blastx		blastx.2		blastx.2		blastx.2					blastx.2		1.8	HMMER			blastx.2			blastx.2		blastx.2		blastx.2	
cDNA 1 1 EMBL:D37288	Similarity to Yeast E1-E2 ATPase YEL031W	[Arabidopsis thaliana]	hypothetical protein	LIKE 2.	ZINC TRANSPORTER		CD84 [Homo sapiens]	yk46e8.3; coded fo	by C. elegans cDNA	by C. elegans 1 1 coded for	cDNA yk34b1.5; coded for	coded for by C. elegans	RNP domain)	motif. (aka RRM, RBD, or	PFAM: RNA recognition			STRABISMUS.	coli]	protein CzcD. [Escherichia	Cation efflux system	[Drosophila melanogaster]	(AF184227) tty	(LUCA-1).	TUMOR SUPPRESSOR	protein [Homo sapiens]
	emb CAB05683.1		emb CAB10408.1	objectories (Constant	splO9JKN1jO9JKN1	-	gb AAD04232.1					gb AAB00699.1			PF00076			sp O45030 O45030			dbilBAA35414 11	4227 1	gb AAD55738.1 AF18		sp Q12794 Q12794	emo[C1111 (2210.1]
88%	63% 33%	29%	45%	77/0	94%	36%	34%	71%	88%	80%	50%	51%			5.51	31%	34%	48%		, 60, 6	100%	36%	28%	53%	45%	7770
9	309	23	653	701	163	179	408	263	1539	1581	1057	322			460	58	58	479		010	2348	268	339	561	153	200
110	344 683	373	1582	7207	1280	409	884	325	1589	1658	1554	1449			531	327	468	1276							533	1104

				sapiens				
				protein product [Homo				
1044	220	100%	dbj BAA91458.1	(AK000996) unnamed	blastx.2	423	838145	HTJMQ74
921	118	34%	sp Q9LM25 Q9LM25	T10O22.22.	blastx.2	413	836997	HBJNB08
268	23	93%	sp 075295 075295	R27328 2.	blastx.2	405	834931	HTEJP13
827	1072	100%						
1068	1361	97%	983	MAMMA1000278.				
394	834	97%	sp BAB13983 BAB13	CDNA FLJ12133 fis, clone	blastx.2	404	834810	HELHM15
L				sapiens				
377	198	96%		protein product [Homo				
1603	356	98%	dbj BAA91394.1	(AK000833) unnamed	blastx.2	401	833067	HFKEH50
			5	CLONE KAT10931.				
862	380	98%	sp Q9NWY5 Q9NWY	CDNA FLJ20533 FIS,	blastx.2	376	829071	HPFDI25
366	247	25%		[Caenorhabditis elegans]				
390	337	38%		(SW:MSP1_YEAST)				
246	91	23%		homolog 4)				
1005	742	53%		protein (TAT-binding				_
729	412	79%	gnl PID e1347884	Similarity to Yeast MSP1	blastx	375	828988	HMIAN37
1010				DESATURASE MLD.				
1025	84	64%	sp O15121 O15121	PUTATIVE FATTY ACID	blastx.2	360	815669	HWLIX39
				sapiens				
				inducible protein [Homo				
				superfamily activation-	-			
932	195	95%	gb AAD19694.1	(AF117297) TNF receptor	blastx.2	357	812760	HLKDC74
514	437	96%						
486	100	78%	sp Q9NZZ7 Q9NZZ7	HSPC171.	blastx.2	340	801935	HSLDO85
2424	2510	82%	071	clone COL04765.				
2212	2424	71%	sp BAB15071 BAB15	CDNA: FLJ21463 fis,	blastx.2	337	799513	HFXGI63
				cDNA EST EMBL				

dbj BAA35576.1 a	49% 60%	emb CAA63219.1	pval [Plasmodium vivax]	blastx.2	490	851355	HHEVC06
bmo			(SW:FKB3_MOUSE) [Caenorhabditis elegans]				
n dbj BAA35576.1 99% 1754 n dbj BAA35576.1 99% 1754 iii emb CAB57950.1 99% 8 emb CAB57950.1 99% 8 emb CAB57950.1 99% 89 34% 336 32% 11 35% 89 34% 110 31% 83 23% 12 sp Q9V7R7 Q9V7R7 42% 466 al emb CAB59979.1 90% 85 ss gb AAD22047.1 99% 2 gb AAD22047.1 99% 2 emb CAA92994.1 45% 915 113 100% 772			Mouse FK506-binding				
August	45%	emb CAA92994.1	predicted using	blastx.2	460	847431	HSOAC39
100 1203_1 1203% 333 334 335	-	sp BAB15113 BAB 113	CDNA: FLJ21676 fis, clone COL09164.	blastx.2	459	847388	HCE2W33
mo /203_1 95% 335 100% 273 100% 273 100% 273 100% 273 95% 1754 99% 17 17 17 18 18 18 19 10 		coupled receptor [Homo sapiens]					
August A	99%	gb AAD22047.1	(AF119815) G-protein-	blastx.2	458	847144	HLWAR77
203_1 95% 333 100% 273 273 95% 1754 4bj BAA35576.1 99% 17 17 17 17 17 17 17 1	100%			_			
Homo 1203_1 100% 335 100% 273 100% 273 95% 1754 95% 1754 95% 1754 95% 1754 95% 1754 95% 1754 95% 1755 95% 1755 95% 1855 115	93%		transporter [Homo sapiens]				
Homo		emb CAB59979.1	(AJ243649) putative metal	blastx.2	451	844529	HWHHU11
203_1 95% 335 100% 273 273 95% 1754 4bj BAA35576.1 99% 17 17 17 17 17 17 17 1		sp Q9V7R7 Q9V7R	CG8311 PROTEIN.	blastx.2	450	844034	HCRBB73
203_1 95% 335 100% 273 95% 1754 1754 1754 1754 1754 1754 1754 1754 1754 1755 175	23%						
203_1 95% 335	31%						
203_1 95% 335 100% 273 273 95% 1754 1754 1754 1754 1754 1754 1155 156	34%						
203_1 95% 335 100% 273 273 95% 1754 1754 1754 1754 1754 1754 1754 1154 1154 1155 100% 1754 1155 100% 1754 1155 100% 1754 1155 100% 1754 1155 100% 1754 1155 100% 1754 1155 100% 1155 100% 1155 100% 1155 100% 1155 100% 1155 100% 1155 100% 1155 100% 100% 1155 100% 1155 100% 1155 100% 1155 100% 1155 100% 1155 100% 1155 100% 1155 100% 1155 100% 1155 100% 1155 100% 100% 1155 1155 100% 1155	35%						
203_1 95% 335	32%		[Homo sapiens]				
203_1 95% 333	94%		transmembrane receptor				
100% 273 100% 273 1754 1754 1754 1754 1754 1754 1754 1754 1755 17	99%	emb CAB57950.1	(AJ245820) type I	blastx.2	429	839272	HWGAF42
1203_1 95% 335 100% 273 100% 1754 17 17 17 17 17 17 17 1			coli]				
95% 333 100% 273 95% 1754	99%	dbj BAA35576.1	Arginine transport system	blastx.2	428	839237	HSLEK65
100% 273	95%						
1/203_1	100%		sapiens]				
700 1		7203_1	adhesion molecule [Homo				
gb AAD51367.1 AF17 98% 517		gb AAD51367.1 AJ	(AF177203) cerebral cell	blastx.2	424	838619	HOHCE56

1071	109	95%	emb CAB75702.1	(AJ245937) glucose	blastx.2	688	866297	HCEVF41
983	201	37%	gb AAD05208.1	(AF060883) endomucin [Mus musculus]	blastx.2	656	863977	HEMET46
992	699	98%		anhydrase 14 [Homo sapiens]				
704	207	99%	dbj BAA85002.1	(AB025904) carbonic	blastx.2	653	863887	HCECL08
				sapiens]				
1565	138	48%	dbj BAA91840.1	(AK001692) unnamed	blastx.2	652	863848	HBXGQ49
1051	599	95%		PROTEIN 35.				
603	103	89%	sp O88407 O88407	NEURAL MEMBRANE	blastx.2	637	862851	HCE2K01
324	226	36%		suppressor [Homo sapiens]				
317	243	96%		cadherin-related tumor				
2422	314	98%	dbj BAA13407.1	Similar to D.melanogaster	blastx.2	636	862807	HCE3X63
			1	sapiens]				
			6024_1	protein isoform [Homo				
749	249	71%	gb AAF17233.1 AF12	(AF126024) stromal cell	blastx.2	633	862567	HIHFMA59
394	248	63%	sp Q9UHT1 Q9UHT1	PRO1902.	blastx.2	624	862042	HNECI74
	_ :			NET-4 [Homo sapiens]				
736	17	43%	gb AAC17120.1	(AF065389) tetraspan	blastx.2	620	861668	HAMGP34
1,00	,	100,6		FACTOR AIF.				
1933	95	100%	splO958311O95831	APOPTOSIS-INDUCING	blastx.2	597	859875	HDPFH27
			2951 1	protein [Homo sapiens]				
88 1	9	98%	gb AAD27726.1 AF13	(AF132951) CGI-17	blastx.2	530	856923	HTOHA37
				sapiens]				
				protein product [Homo				
908	30	98%	dbj BAA91959.1	(AK001882) unnamed	blastx.2	504	853186	HCFNG65
				human (fragment)				
612	529	92%		DKFZp564J0863.1 -				
541	26	81%	pir T17320 T17320	hypothetical protein	blastx.2	499	852845	HDPBI36
							-	

298	203	20%	9322 19	protein [Arabidopsis				
624	313	36%	gb AAD55479.1 AC00	(AC009322) Unknown	blastx.2	841	874064	нн Е V Q 26
				protein [Homo sapiens]				
762	364	66%	emb CAB69910.1	(AL137200) hypothetical	blastx.2	838	873679	HTTEL61
920	804	17%		thaliana]				
1774	1013	39%	6955_26	protein [Arabidopsis				
2494	1475	34%	gb AAD22340.1 AC00	(AC006955) hypothetical	blastx.2	836	873355	HHFJG66
,				[Homo sapiens]				
1514	345	99%	gb AAD20044.1	(AF131781) Unknown	blastx	833	872527	HDABD89
1472	1401	62%						
1373	1083	42%						
1118	861	46%		[Caenorhabditis elegans]				
824	396	34%	gb AAC48267.1	ZC513.5 gene product	blastx	806	871663	HHEOI72
			515					
1327	1626	70%	sp AAG35515 AAG35	PRO2550.	blastx.2	797	871264	HSRAV54
1351	1235	66%		[Homo sapiens]				
1239	106	100%	gb AAC34467.1	(AC005622) R30953_1	blastx.2	770	870142	HTLEI29
			1821_1	protein [Homo sapiens]				
1156	38	97%	gb AAD34058.1 AF15	(AF151821) CGI-63	blastx.2	759	869639	HFTCV95
				sapiens				
,	-			protein product [Homo				
941	120	100%	dbj BAA92099.1	(AK002135) unnamed	blastx	737	868484	HDPM069
			1512_1	[Homo sapiens]				
467	51	100%	gb AAF29127.1 AF16	(AF161512) HSPC163	blastx	708	867546	HKATA81
112	2	75%		[Homo sapiens]				
977	732	100%		mannosyltransferase				
744	55	93%	dbj BAB18567.1	(AB028127)	blastx.2	691	866388	HSSKF43
888	616	32%						
1112	963	52%						_
112	53	90%		transporter [Homo sapiens]			-	
							-	

874369 845 blastx.2 Cell division protein FtsK. Cell divis	550	176	80%	dbj BAA91388.1	(AK000820) unnamed protein product [Homo	blastx.2	875	875704	HWLMC49
B74369 845 blastx.2 Cell division protein FtsK. dbj BAA35615.1 93% 368	467	93	94%	emb CAA27318.1	put. Cyt repressor (aa 1-	blastx.2	863	875269	HFATS83
### thaliana 193% 193% 100% 100% 65% 100%	757	855	29%						
R74369 845 blastx.2 Cell division protein FtsK. dbj BAA35615.1 93% 368 1787 86% 864 100% 595 1787 1	745	849	30%						
### R74369 845 blastx.2 Cell division protein FtsK. dbj BAA35615.1 93% 368	410	493	36%						
R74369 845 blastx.2 Cell division protein FtsK. dbj BAA35615.1 93% 368 95% 1787 86% 864 100% 595 100% 595 1476 100% 100	404	670	34%						
R74369 845 blastx.2 Cell division protein FtsK. dbj BAA35615.1 93% 368 95% 1787 86% 864 100% 595 100% 595 100% 100	897	1019	34%						
State Cell division protein FtsK. Abj BAA35615.1 93% 368 95% 1787 95% 1787 95% 1787 95% 1787 95% 1787 95% 1476 100% 595 1476 100% 10	320	493	25%						
R74369 845 blastx.2 Cell division protein FtsK. dbj BAA35615.1 93% 368 864 100% 595 65% 1476 100% 100% 1031 1056 100% 1031 1056 100% 1031 1056 100% 1031 1056 100% 1031 1056 100% 1031 1056 100% 1031 1056 100% 1031 1056 100% 1031 1056 100% 1031 1056 100% 1031 1056 100% 1031 1056 100% 1031 1	326	583	27%						
R74369 845 blastx.2 Cell division protein FtsK. dbj BAA35615.1 93% 368 95% 1787 86% 864 100% 595 65% 1476 100% 1031 93% 1165 96% 1887 90% 1346 45% 45% 971 44% 971 44% 971 44% 971	87(1034	36%			_			
R74369 845 blastx.2 Cell division protein FtsK. Cell division protein FtsK. Cell division protein FtsK. High particular 100% 1787 1887	87(971	44%	· ·					
R74369 R45 Blastx.2 Cell division protein FtsK. Secherichia colij Secheric	861	1022	45%						
R74369 R45 blastx.2 Cell division protein FtsK. dbj BAA35615.1 93% 368 1787 86% 864 100% 595 1786 100% 595 1787 100% 10	290	499	27%						
R74369 R	77:	858	60%		,				
R74369 R45 Blastx.2 Cell division protein FtsK. dbj BAA35615.1 93% 368 95% 1787 95% 1787 95% 1787 95% 1787 95% 100% 595 100% 595 100% 1031 93% 1165 96% 1887 90% 1346 45% 840 51% 858 173 173 173 173 173 173 173 173 173	610	951	25%					_	
R74369 R	74:	858	51%						
thaliana] 874369 845 blastx.2 Cell division protein FtsK. dbj BAA35615.1 93% 368 [Escherichia coli] 86% 864 100% 595 65% 1476 100% 1031 93% 1165 93% 1165 945% 1887 96% 1887 96% 1887 96% 1887 97 15% 173	565	846	40%						
R74369 R45 blastx.2 Cell division protein FtsK. dbj BAA35615.1 93% 368 1787 86% 864 100% 595 1476 100% 1031 93% 1165 96% 1346 45% 840 100% 1034 100% 1034 100% 1034 1036	မှ	173	51%						
thaliana] 874369 845 blastx.2 Cell division protein FtsK. dbj BAA35615.1 93% 368 1787 95% 1787 86% 864 100% 595 1476 100% 1031 93% 1165 93% 1346 90% 1346 90% 1346 100% 1346	580	840	45%					-	
thaliana] 874369 845 blastx.2 Cell division protein FtsK. dbj BAA35615.1 93% 368 [Escherichia coli] 95% 1787 864 100% 595 65% 1476 100% 1031 93% 1165 96% 1887	122	1346	90%		-				
thaliana] 874369 845 blastx.2 Cell division protein FtsK. dbj BAA35615.1 93% 368 [Escherichia coli] 95% 1787 86% 864 100% 595 1476 100% 1031 93% 1165	1789	1887	96%						
thaliana] 874369 845 blastx.2 Cell division protein FtsK. dbj BAA35615.1 93% 368 [Escherichia coli] 86% 864 100% 595 65% 1476 100% 1031	103	1165	93%		•				
thaliana] 874369 845 blastx.2 Cell division protein FtsK. dbj BAA35615.1 93% 368 [Escherichia coli] 95% 1787 86% 864 100% 595	86,	1031	100%					_	
874369 845 blastx.2 Cell division protein FtsK. dbj BAA35615.1 93% 368 [Escherichia coli] 86% 864 100% 595	114	1476	65%						
thaliana] 874369 845 blastx.2 Cell division protein FtsK. dbj BAA35615.1 93% 368 [Escherichia coli] 95% 1787 864	34	595	100%						
thaliana] 874369 845 blastx.2 Cell division protein FtsK. dbj BAA35615.1 93% 368 [Escherichia coli] 95% 1787	56	864	86%	•					
874369 845 blastx.2 Cell division protein FtsK. dbi BAA35615.1 93% 368	147	1787	95%	•	[Escherichia coli]	-			
thaliana]		368	93%	dbj BAA35615.1	Cell division protein FtsK.	blastx.2	845	874369	HSLJR04
					thaliana]				

	3587	98%	dbj BAA91975.1	(AK001914) unnamed	blastx.2	1102	883434	HELFG05
1385	363	28%	gb AAA27934.1	putative [Caenorhabditis elegans]	blastx.2	1097	883376	HTOAW80
1314 592	598 305	87% 88%	sp O09014 O09014	TRANSPORTER.	blastx.2	1092	883335	HZCBE0/
525	<u> </u>	46%	gb AAB47236.1	transporter protein [Homo sapiens]	blastx.2	1083	883238	HISBVI/
1622	1566	42%		sapiens				
1666	1067	100%		protein product [Homo				
1069	281	99%	emb[CAC22478.1]	(AX058090) unnamed	blastx.2	1080	883176	HEEAX26
592	368	45%		musculus]				
375	7	36%	gb AAA37113.1	19.5 protein [Mus	blastx.2	1075	883132	HNSMB73
115	77	46%						
1529	1065	26%		[Caenorhabditis elegans]				
1004	156	26%	gb AAC38816.1	B0034.3 gene product	blastx.2	982	880254	HNFIB27
			450	protein.				
2893	770	100%	sp CAC09450 CAC09	Hypothetical 79.4 kDa	blastx.2	979	880178	HIHENP77
73	47	88%						
4	u	100%		nhaB [Escherichia coli]	2111			
723	67	98%	dbj BAA36033.1	Na+/H+ antiporter protein	blastx	976	880039	HSDFD90
	() F	27.70		. [Escherichia coli]				
368	371	100%	dbj BAA36064.1	Hypothetical protein in	blastx	970	879900	HWAEG32
	612	73%	032					
	259	46%	sp AAF43032 AAF43	Small rec.	blastx.2	969	879774	HWAHE17
	1540	31%						
	1207	26%		Arabidopsis thaliana				
	403	32%	pir T46147 T46147	zinc finger protein -	blastx.2	894	876546	HDABK73
				sapiens]				

469	606	39%		[Homo sapiens]				
340	411	62%	dbj BAA87335.1	(AB012692) CAC-1	blastx	1227	896517	HPTVU91
898	329	32%	gb AAD40352.2	RP140-upstream [Drosophila melanogaster]	blastx	1225	8963/0	HJPAZ12
1264	1214	%6//						
1214	1161	88%						
1161	514	100%	sp Q9Y386 Q9Y386	CGI-78 PROTEIN.	blastx.2	1219	895880	HWHGQ46
			8113 1	protein [Mus musculus]				
2606	1830	72%	gb AAD22488.1 AF12	(AF128113) prominin-like	blastx	1214	895539	HKAHR43
	İ			[Mus musculus]				
530	192	83%	gb AAC27079.1	(AF072128) claudin-2	blastx.2	1211	895024	HTPGG10
				musculus]				
730	695	50%	٠	glycoprotein (Rh50) [Mus				
374	3	55%	dbj BAA32441.1	(AB015192) 50 kD	blastx.2	1194	893535	HLQFF81
				b0847 - Escherichia coli				
1251	1	100%	pir G64822 G64822	probable membrane protein	blastx.2	1188	892164	HPIAN49
381	265	38%	555					
1323	400	58%	sp AAF98555 AAF98	OX2 receptor precursor.	blastx.2	1186	892018	HDQGN46
	· · · · · · · · · · · · · · · · · · ·			coli]				
1513	173	100%	gb AAA97114.1	ORF_f447 [Escherichia	blastx.2	1185	892016	HSLFZ79
1245	1204	57%		[Cricetulus griseus]				
1239	124	84%	gb AAC68695.1	(AF093673) layilin	blastx.2	1174	889371	HSLKC45
				PROTEIN.				
795	73	100%	sp 095003 095003	WUGSC:H_DJ0593H12.2	blastx.2	1165	888279	HOUGB95
				sapiens]				
				protein product [Homo				
923	306	44%	dbj BAA91020.1	(AK000224) unnamed	blastx.2	1161	888142	ннғл87
67	2	100%		b0847 - Escherichia coli				
435	67	89%	pir G64822 G64822	probable membrane protein	blastx.2	1126	884818	HSLEN72
				sapiens]				

				[vianimobsis manama]				
516	7	30%	dbj BAA87953.1	(AB028228) ZCF61	blastx.2	1275	901386	HAHCK43
551	408	37%		norvegicus]				
422	177	30%	gb AAA53532.1	glycoprotein CD44 [Rattus	blastx	1260	899099	HHFN170
				elegans]				
				elegans predicted protein C33G8.2 [Caenorhabditis				
843	367	36%	gb AAB00721.1	weak similarity to C.	blastx.2	1259	898943	HSUMA53
				musculus]				
				receptor beta subunit [Mus				
848	90	86%	gb AAA69976.1	signal recognition particle	blastx	1253	898401	HABAD39
			_	sapiens				
				protein product [Homo				
502	2	91%	dbj BAB14797.1	(AK024046) unnamed	blastx.2	1250	898152	HHFJV91
!				SBBI53 [Homo sapiens]				
			2523_1	transmembrane protein				
424	1140	89%	gb AAF99603.1 AF24	(AF242523) hypothetical	blastx.2	1240	897852	HEBFI34
582	415	48%		bare-faced crassow				
402	199	64%	pir JE0185 JE0185	lysozyme (EC 3.2.1.17) -	blastx	1238	897328	HTLJA52
				[Escherichia coli]			; ;	
_				lipopolysaccharide chains				
				component of				
				length of O-antigen				-
975	16	100%	gb AAC75088.1	(AE000294) regulator of	blastx.2	1237	897262	HSLAS08
790	713	38%		[Caenorhabditis elegans]				
638	570	43%		protease A 1 1				
307	239	43%		similarity to S. cerevisiae				
1295	1050	50%	gb AAC69037.1	one short region of weak	blastx	1235	897055	HTTBH18
				sapiens				
429	37	40%	gb AAA36196.1	MAL protein [Homo	blastx.2	1232	896874	HETJW92

blastx (AF151020) HSPC186 gb AAF36106.1 [Homo sapiens] 1020 1 blastx.2 SERPENTINE sp Q9QZT2 Q9Q RECEPTOR. blastx (AB029334) HrPET-1 dbj BAA81907.1 [Halocynthia roretzi] gb AAD01206.1 [Homo sapiens] gb AAD01206.1 [Homo sapiens] gb AAD01206.1 [Homo sapiens] gb AAB00807.1 blastx (AK000922) unnamed dbj BAA91427.1 protein product [Homo sapiens] gb AAB00807.1 blastx.2 ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1 blastx (AK001651) unnamed blastx.2 (AK001651) unnamed gb AAA83618.1 [Caenorhabditis elegans] dbj BAA91121.1					protein product [Homo sapiens]				
1299 blastx (AF151020) HSPC186 gb AAF36106.1 AF15 97% 146 1302 blastx.2 SERPENTINE sp Q9QZT2 39% 62 1306 blastx (AB029334) HrPET-1 db BAA81907.1 41% 171 1310 blastx (AF004876) 54TMp gb AAD01206.1 50% 160 1324 blastx (AK000922) unnamed db BAA91427.1 59% 136 1330 blastx.2 ZZ:beta-Gal' IgG-binding gb AAB00807.1 88% 2056 1331 blastx (AK001651) unnamed cloning 1 100% 457 1349 blastx.2 Similar to sulfatase gb AAA83618.1 50% 2379 1349 blastx.2 Similar to sulfatase gb AAA83618.1 50% 2379 1340 cloning 1 (Caenorhabditis elegans) 2379 1341 close cloning 1 close cloning 1 close 1225	113	98%	dbj BAA91121.1	(AK000373) unnamed	blastx.2	1398	910448	HIBCH43	
1299 blastx (AF151020) HSPC186 gb AAF36106.1 AF15 97% 146 1302 blastx.2 SERPENTINE RECEPTOR. RECEPTOR. 1306 blastx (AB029334) HrPET-1 db BAA81907.1 41% 672 1310 blastx (AF004876) 54TMp gb AAD01206.1 50% 160 1324 blastx (AK000922) unnamed db BAA91427.1 59% 136 1330 blastx.2 ZZ.beta-Gal' IgG-binding fusion protein [unidentified cloning 1 1331 blastx (AK001651) unnamed db BAA91811.1 100% 457 1349 blastx.2 Similar to sulfatase gb AAA83618.1 50% 354	2687	2379	59%		[Caenorhabditis elegans]				
1299 blastx (AF151020) HSPC186 gb AAF36106.1 AF15 97% 146 1302 blastx.2 SERPENTINE RECEPTOR. 1306 blastx (AB029334) HrPET-1 db BAA81907.1 41% 672 1310 blastx (AF004876) 54TMp gb AAD01206.1 50% 160 1324 blastx (AK000922) unnamed db BAA91427.1 59% 136 1330 blastx.2 ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1 CAK001651) unnamed db BAA91811.1 100% 457 1331 blastx (AK001651) unnamed db BAA91811.1 100% 457 protein product [Homo sapiens] 98% 299	1655	354	50%	gb AAA83618.1	Similar to sulfatase	blastx.2	1349	907105	HELGY02
1299 blastx (AF151020) HSPC186 gb AAF36106.1 AF15 97% 146 1302 blastx.2 SERPENTINE 1020 1 1306 blastx (AB029334) HrPET-1 db BAA81907.1 41% 672 1310 blastx (AF004876) 54TMp gb AAD01206.1 50% 160 1324 blastx (AK000922) umamed db BAA91427.1 68% 1228 1330 blastx.2 ZZ:beta-Gal' IgG-binding gb AAB00807.1 88% 2056 1331 blastx (AK001651) umamed db BAA91811.1 100% 457 1331 blastx (AK001651) umamed db BAA91811.1 99% 1327	454	299	98%		sapiens]				
1299 blastx (AF151020) HSPC186 gb AAF36106.1 AF15 97% 146 1302 blastx.2 SERPENTINE RECEPTOR. 1306 blastx (AB029334) HrPET-1 dbj BAA81907.1 41% 672 1310 blastx (AF004876) 54TMp gb AAD01206.1 50% 160 1324 blastx (AK000922) unnamed dbj BAA91427.1 59% 136 1330 blastx.2 ZZ:beta-Gal' IgG-binding gb AAB00807.1 88% 2056 1331 blastx (AK001651) unnamed dbj BAA91811.1 100% 457	1731	1327	99%		protein product [Homo				
1299 blastx (AF151020) HSPC186 gb AAF36106.1 AF15 97% 146	1272	457	100%	dbj BAA91811.1	(AK001651) unnamed	blastx	1331	906306	HTHCK88
1299 blastx (AF151020) HSPC186 gb AAF36106.1 AF15 97% 146 1302 blastx.2 SERPENTINE 1020 1 1306 blastx (AB029334) HrPET-1 dbj BAA81907.1 41% 171 1310 blastx (AF004876) 54TMp gb AAD01206.1 50% 160 1324 blastx (AK000922) umnamed dbj BAA91427.1 59% 136 1330 blastx.2 ZZ.beta-Gal' IgG-binding gb AAB00807.1 88% 2056 1330 blastx.2 ZZ.beta-Gal' Igunidentified gb AAB00807.1 88% 2056 1300 Dastx 2056 Dastx 2056 1301 Dastx 2000 2000 2000 1302 Dastx 2000 2000 2000 1303 Dastx 2000 2000 2000 1304 Dastx 2000 2000 1305 Dastx 2000 2000 1306 Dastx 2000 2000 1307 2000 2000 1308 2000 2000 1309 2000 2000 1300 Dastx 2000 1300					cloning 1				
1299 blastx (AF151020) HSPC186 gb AAF36106.1 AF15 97% 146 1302 blastx.2 [Homo sapiens] 1020 1 39% 62 1306 blastx (AB029334) HrPET-1 dbj BAA81907.1 41% 171 1310 blastx (AF004876) 54TMp gb AAD01206.1 66% 277 1324 blastx (AK000922) umnamed dbj BAA91427.1 59% 136 1324 blastx (AK000922) umnamed dbj BAA91427.1 59% 136 136 protein product [Homo sapiens] 71% 910 1330 blastx.2 ZZ:beta-Gal' IgG-binding gb AAB00807.1 88% 2056					fusion protein [unidentified				
1299 blastx (AF151020) HSPC186 gb AAF36106.1 AF15 97% 146 1302 [Homo sapiens] 1020 1 1 1020 1 1302 blastx.2 SERPENTINE sp Q9QZT2 Q9QZT2 39% 62 1306 blastx (AB029334) HrPET-1 dbj BAA81907.1 41% 171 1310 blastx (AF004876) 54TMp gb AAD01206.1 66% 277 1324 blastx (AK000922) umnamed protein product [Homo sapiens] dbj BAA91427.1 59% 136 1324 blastx (AK000922) umnamed sapiens] dbj BAA91427.1 59% 136 1324 blastx (Ascondant [Homo sapiens] 34% 1136	2235	2056	88%	gb AAB00807.1	ZZ:beta-Gal' IgG-binding	blastx.2	1330	906285	HWLCJ12
1299 blastx (AF151020) HSPC186 gb AAF36106.1 AF15 97% 146 1302 blastx.2 SERPENTINE Sp Q9QZT2 Q9QZT2 39% 62 1306 blastx (AB029334) HrPET-1 db BAA81907.1 41% 171 1310 blastx (AF004876) 54TMp gb AAD01206.1 50% 160 1324 blastx (AK000922) umnamed db BAA91427.1 59% 136 protein product [Homo sapiens] 59% 128 sapiens] 346 368% 1228 sapiens] 350 360 sapiens] 368% 1228 sapiens] 368% 1238 sapiens 368% 1238 sapi	1231	1136	34%						
1299 blastx (AF151020) HSPC186 gb AAF36106.1 AF15 97% 146 1302 [Homo sapiens] 1020 1 1020 1 39% 62 1302 blastx.2 SERPENTINE sp Q9QZT2 Q9QZT2 39% 62 1306 blastx (AB029334) HrPET-1 dbj BAA81907.1 41% 171 1310 blastx (AF004876) 54TMp gb AAD01206.1 66% 277 1324 blastx (AK000922) umnamed dbj BAA91427.1 59% 136 1324 blastx (AK000922) umnamed dbj BAA91427.1 59% 136 protein product [Homo protein product [Homo 136 136 1228	1137	910	71%		sapiens]				
1299 blastx (AF151020) HSPC186 gb AAF36106.1 AF15 97% 146 1302 [Homo sapiens] 1020 1 1 1020 1 39% 62 1302 blastx.2 SERPENTINE RECEPTOR. sp Q9QZT2 Q9QZT2 39% 62 1306 blastx (AB029334) HrPET-1 dbj BAA81907.1 41% 171 1310 blastx (AF004876) 54TMp gb AAD01206.1 66% 277 1324 blastx (AK000922) umnamed dbj BAA91427.1 59% 136	1560	1228	68%		protein product [Homo	,			
1299 blastx (AF151020) HSPC186 gb AAF36106.1 AF15 97% 146 1302 [Homo sapiens] 1020 1 1020 1 39% 62 1302 blastx.2 SERPENTINE sp Q9QZT2 Q9QZT2 39% 62 1306 blastx (AB029334) HrPET-1 db BAA81907.1 41% 171 1310 blastx (AF004876) 54TMp gb AAD01206.1 66% 277 1310 [Homo sapiens] gb AAD01206.1 50% 160	834	136	59%	dbj BAA91427.1	(AK000922) unnamed	blastx	1324	905871	HLTAG56
1299 blastx (AF151020) HSPC186 gb AAF36106.1 AF15 97% 146 1302 [Homo sapiens] 1020 1 1020 1 39% 62 1306 blastx (AB029334) HrPET-1 db BAA81907.1 41% 171 1310 blastx (AF004876) 54TMp gb AAD01206.1 66% 277	231	160	50%		[Homo sapiens]				
1299 blastx (AF151020) HSPC186 gb AAF36106.1 AF15 97% 146 1302 blastx.2 SERPENTINE sp Q9QZT2 Q9QZT2 39% 62 1306 blastx (AB029334) HrPET-1 db BAA81907.1 41% 171 1306 [Halocynthia roretzi] 42% 672	648	277	66%	gb AAD01206.1	(AF004876) 54TMp	blastx	1310	905017	HSKAS66
1299 blastx (AF151020) HSPC186 gb AAF36106.1 AF15 97% 146 1302 blastx.2 SERPENTINE RECEPTOR. sp Q9QZT2 Q9QZT2 39% 62 1306 blastx (AB029334) HrPET-1 dbj BAA81907.1 41% 171	998	672	42%		[Halocynthia roretzi]				
1299 blastx (AF151020) HSPC186 gb AAF36106.1 AF15 97% 146 1302 blastx.2 SERPENTINE sp Q9QZT2 Q9QZT2 39% 62 RECEPTOR. RECEPTOR. sp Q9QZT2 Q9QZT2 39% 62	704	171	41%	dbj BAA81907.1	(AB029334) HrPET-1	blastx	1306	904861	HTLIT05
1299 blastx (AF151020) HSPC186 gb AAF36106.1 AF15 97% 146 1302 blastx.2 [Homo sapiens] 1020 1 1 1302 blastx.2 SERPENTINE sp Q9QZT2 Q9QZT2 39% 62					RECEPTOR.		İ		
1299 blastx (AF151020) HSPC186 gb AAF36106.1 AF15 97% 146 [Homo sapiens] 1020 1	547	62	39%	sp Q9QZT2 Q9QZT2	SERPENTINE	blastx.2	1302	904471	HEOPR46
1299 blastx (AF151020) HSPC186 gb AAF36106.1 AF15 97% 146				1020_1	[Homo sapiens]				
	568	146	97%	gb AAF36106.1 AF15	(AF151020) HSPC186	blastx	1299	904360	HHEPR52

providing the results of comparisons to protein and protein family databases. The first column provides a unique clone identifier, "Clone ID MO:", corresponding to a cDNA "Contig ID:" which allows correlation with the information in Table I. The third column provides the sequence identifier, "SEQ ID MO:", for the contig polynucleotide sequences. The finth column provides the sequence identifier, "SEQ ID MO:", for the contig polynucleotide sequences. The fourth column provides the analysis method by which the homology/identity disclosed in the Table was determined. The fifth column provides a description of the ppam/NR hit identified by each analysis. Column six provides the accession number of the ppam/NR hit disclosed in the fifth column. Column seven, score/percent identity, provides a quality score or the percent identity, of the hit disclosed in column five. Comparisons were made between polypeptides encoded by polynucleotides of the comparisons were made between polypeptides encoded by polynucleotides of the invention and a non-redundant protein database (herein referred to as "NR"), or a database invention and a non-redundant protein database (herein referred to as "NR"), or a database

of exact matches between the two aligned sequences in the HSP, dividing by the number percent identity in Column 7. The percent identity is determined by dividing the number reports the degree of similarity between the Query and the Subject for each HSP as a similarity; these segments are known as High-Scoring Segment Pairs or HSPs. Table 2 polypeptide segments of the Query and Subject sequences which share a high degree of the match was not to a known repetitive element. BLASTX returns alignments of short estimated probability that the match occurred by chance alone is less than 1.0e-07, and (b) provided in column six. The highest scoring 'Subject' is reported in Table 2 if (a) the shown in column five of Table 2 and the database accession number for that sequence is sequence that is most similar to the Query sequence (the highest scoring 'Subject') is 410 (1990); and Gish and States, Nat. Genet. 3:266-272 (1993). A description of the information about the BLASTX algorithm please see Altshul et al., J. Mol. Biol. 215:403was used to compare a 6-frame translation of the Query sequence to the NR database (for sequence) was used to search against the MR database. The computer program BLASTX of the polynucleotides shown in Table 1, column 3 (e.g., SEQ ID NO:X or the 'Query' the computer program ardb2 (Warren Gish, Washington University in Saint Louis). Each database, and the SIB SwissProt and TrEMBL databases, was made non-redundant using The NR database, which comprises the NBRF PIR database, the NCBI GenPept of protein families (herein referred to as "PFAM"), as described below.

MO 01/80304 bCL/n201/10420

of Query amino acids in the HSP and multiplying by 100. The polynucleotides of SEQ ID NO:X which encode the polypeptide sequence that generates an HSP are delineated by

encode the polypeptide sequence which show a significant match to a PFAM protein the alignment. Columns 8 and 9 delineate the polynucleotides of SEQ ID NO:X which provided in column 6. Column 7 provides the score returned by HMMER version 1.8 for listed in column 5 of Table 2, and the database accession number of the PFAM hit is PFAM family which shares a significant match with a polypeptide of the invention is the most distantly related known member of that protein family. The description of the returned by HMMER 1.8 was greater than 0.8 times the HMMER 1.8 score obtained with version 2.1 was said to be a significant match to a polypeptide of the invention if the score I) to each of the HMMs derived from PFAM version 2.1. A HMM derived from PFAM compare the predicted protein sequence for each Query sequence (SEQ ID MO:Y in Table HMMER version 1.8 (Sean Eddy, Washington University in Saint Louis) was used to nucleic acids, Cambridge University Press, 1998 for the theory of HMMs). The program (see, e.g., Durbin et al., Biological sequence analysis: probabilistic models of proteins and specific variation among the sequences that make up the multiple sequence alignment probability model called a Hidden Markov Model, or HMM, that represents the positionalignment for each protein family. Each multiple sequence alignment is converted into a Res., 26:320-322, 1998)) consists of a series of multiple sequence alignments; one The PFAM database, PFAM version 2.1, (Sonnhammer et al., Nucl. Acids [0004] columns 8 and 9 of Table 2.

family. [0005] As mentioned, columns 8 and 9 in Table 2, "NT From" and "NT To", delineate the polynucleotides of "SEQ ID NO:X" that encode a polypeptide having a significant match to the PFAM/NR database as disclosed in the fifth column. In one embodiment, the invention provides a protein comprising, or alternatively consisting of, a polypeptide encoded by the polynucleotides of SEQ ID NO:X delineated in columns 8 and 9 of Table encoded by the polynucleotides of SEQ ID NO:X delineated in columns 8 and 9 of Table encoded by the polynucleotides encoding such proteins, and the complementary

strand thereto.

[0006] The nucleotide sequence SEQ ID NO:X and the translated SEQ ID NO:Y are sufficiently accurate and otherwise suitable for a variety of uses well known in the art and described further below. For instance, the nucleotide sequences of SEQ ID NO:X are

MO 01/30204 bCL/\(\Omega\)201/10420

useful for designing nucleic acid hybridization probes that will detect nucleic acid sequences contained in SEQ ID NO:X or the cDNA contained in Clone ID NO:Z. These probes will also hybridize to nucleic acid molecules in biological samples, thereby enabling immediate applications in chromosome mapping, linkage analysis, tissue identification and/or typing, and a variety of forensic and diagnostic methods of the invention. Similarly, polypeptides identified from SEQ ID NO:Y may be used to generate antibodies which bind specifically to these polypeptides, or fragments thereof, and/or to

the polypeptides encoded by the cDNA clones identified in, for example, Table I.

[0007] Nevertheless, DNA sequences generated by sequencing reactions can contain sequencing errors. The errors exist as misidentified nucleotides, or as insertions or deletions of nucleotides in the generated DNA sequence. The erroneously inserted or deleted nucleotides cause frame shifts in the reading frames of the predicted amino acid sequence. In these cases, the predicted amino acid sequence diverges from the actual amino acid sequence, even though the generated DNA sequence may be greater than amino acid sequence, even though the generated DNA sequence may be greater than amino acid sequence, even though the generated DNA sequence may be greater than amino acid sequence, even though the generated DNA sequence may be greater than amino acid sequence, even though the generated DNA sequence may be greater than amino acid sequence, even though the generated DNA sequence may be greater than amino acid sequence, even though the generated DNA sequence may be greater than

in an open reading frame of over 1000 bases). Sequence or the amino acid sequence, the present invention provides not only the generated nucleotide sequence identified as SEQ ID NO:X, and a predicted translated amino acid sequence identified as SEQ ID NO:Y, but also a sample of plasmid DNA containing cDNA Clone ID NO:Z (deposited with the ATCC on March 24, 2000, and receiving ATCC designation numbers PTA-1559). The nucleotide sequence of each deposited clone can readily be determined by sequencing the deposited clone in accordance with known methods. Further, techniques known in the art can be used to

verify the nucleotide sequences of SEQ ID NO:X.

[0009] The predicted amino acid sequence can then be verified from such deposits. Moreover, the amino acid sequence of the protein encoded by a particular clone can also be directly determined by peptide sequencing or by expressing the protein in a suitable host cell containing the deposited human cDNA, collecting the protein, and determining

its sequence.

transcription and RNA ligase is used to join a restriction site-containing anchor primer to major differences in procedure are that the RNA is alkaline hydrolyzed after reverse stranded cDNA), developed by Dumas et al., Nucleic Acids Res., 19:5227-32 (1991). The which is a modification of a related technique, SLIC (single-stranded ligation to singleand 3' RACE for recovery of full length genes. A second kit is available from Clontech reagents and methods to those above are supplied in kit form from Gibco/BRL for both 5' Several quality-controlled kits are commercially available for purchase. Similar [1100] methods known in the art and/or commercial kits are used to amplify and recover 3' ends. with the putatively identified homologue and overlap with the partial cDNA clone. Similar correct protein-coding inserts. Correct 5' ends are confirmed by comparing this sequence This DNA is transformed into bacteria and the plasmid clones sequenced to identify the and ligated to a plasmid such as pBluescript SKII (Stratagene) at XhoI and EcoRV sites. agarose with the Magic PCR Prep kit (Promega), restriction digested with XhoI or Sall, predicted size of missing protein-coding DNA is removed. cDNA is purified from the ethidium bromide-agarose gel and the region of gel containing cDMA products the as a nested cDNA-specific antisense primer. The PCR products are size-separated on an This double-stranded cDNA is PCR amplified for 40 cycles with the same primers as well sites (Xhol, Sall and Clal) at the 5' end and a primer containing just these restriction sites. polymerase (Perkin-Elmer Cetus), an oligo-dT primer containing three adjacent restriction amplification. The second strand is synthesized from the dA-tail in PCR buffer, Taq DNA (Gibco/BRL). Thus, an anchor sequence is produced which is needed for PCR first-strand cDNA is then tailed with dATP and terminal deoxynucleotide transferase The primer is removed from the reaction with a Microcon Concentrator (Amicon). The (Gibco/BRL) and an antisense or complementary primer specific to the cDNA sequence. RACE procedure. Poly A+ or total RNA is reverse transcribed with Superscript II translation, therefor. The following briefly describes a modification of this original 5' start or stop codon, respectively. In some cases, cDNAs are missing the start codon of end can be reconstructed to include the absent base pairs extending to the translational Nat'l. Acad. Sci. USA, 85:8998-9002 (1988). A cDNA clone missing either the 5' or 3' amplification of cDNA ends (RACE) procedure described in Frohman, M.A., et al., Proc. Partial cDNA clones can be made full-length by utilizing the rapid [otoo]

the first-strand cDNA. This obviates the necessity for the dA-tailing reaction which results in a polyT stretch that is difficult to sequence past.

[0012] An alternative to generating 5' or 3' cDNA from RNA is to use cDNA library double-stranded DNA. An asymmetric PCR-amplified antisense cDNA strand is synthesized with an antisense cDNA-specific primer and a plasmid-anchored primer.

cDNA-specific antisense primer and the plasmid-anchored primer.

These primers are removed and a symmetric PCR reaction is performed with a nested

RNA Ligase Protocol For Generating The 5' or 3' End Sequences To Obtain Full

be ligated to an RNA oligonucleotide using T4 RNA ligase. This modified RNA reaction leaves a 5' phosphate group at the 5' end of the cap cleaved RMA which can then order to remove the cap structure present at the 5' ends of messenger RNAs. This used is then inactivated and the RMA is treated with tobacco acid pyrophosphatase in damaged RNA which may interfere with the later RNA ligase step. The phosphatase if be treated with phosphatase if necessary to eliminate 5' phosphate groups on degraded or may be used but is not a prerequisite for this procedure. The RNA preparation may then gene. This method starts with total RNA isolated from the desired source, poly A RNA desired full length gene which may then be sequenced and used to generate the full length known sequence of the gene of interest, is used to PCR amplify the 5' portion of the containing a primer specific to the ligated RNA oligonucleotide and a primer specific to a of RNA presumably containing full-length gene RNA transcript and a primer set (1993)). Briefly, a specific RNA oligonucleotide is ligated to the 5' ends of a population method was published by Fromont-Racine et al., Nucleic Acids Res., 21(7):1683-1684 RACE is available for generating the missing 5' end of a desired full-length gene. (This from the original cDMA to generate the missing information. A method similar to 5' useful method for generating the 5' or 3' end is to use the existing sequence information While the full length gene may be present in the library and can be identified by probing, a enrichment using specific probes and protocols similar and identical to 5' and 3' RACE. cDNA plasmid. These methods include, but are not limited to, filter probing, clone identification of the 5' or 3' portions of the gene which may not be present in the original Once a gene of interest is identified, several methods are available for the [60013] Length Genes

MO 01/30304 . LCL/US01/16450

preparation can then be used as a template for first strand cDNA synthesis using a gene specific oligonucleotide. The first strand synthesis reaction can then be used as a template for PCR amplification of the desired 5' end using a primer specific to the ligated RNA oligonucleotide and a primer specific to the known sequence of the gene of interest. The resultant product is then sequenced and analyzed to confirm that the 5' end sequence

Tables 1 or 2 by procedures hereinafter further described, and others apparent to those the ATCC Deposits by use of a sequence (or portion thereof) described in, for example the ability of one skilled in the art to sequence the DNA included in a clone contained in portion of the DNA sequence in a clone included in the ATCC Deposits, it is well within human gene. Furthermore, although the sequence listing may in some instances list only a or in other cases such clone may include a substantial portion of the coding region of a sequence listed as SEQ ID NO:X, may include the entire coding region of a human gene (Clone ID NO:Z). A clone which is isolatable from the ATCC Deposits by use of a includes cDNA clones corresponding to SEQ ID NO:X described, for example, in Table 1 Table 1. These deposits are referred to as "the deposits" herein. The deposited material and cloned in either a plasmid vector or a phage vector, as described, for example, in numbers PTA-1559) is a mixture of cDMA clones derived from a variety of human tissue ATCC (deposited with the ATCC on March 24, 2000, and receiving ATCC designation DNA sequences, as well as the use of the DNA sequences. The material deposited with the The present invention also relates to vectors or plasmids which include such [0014] belongs to the relevant gene.

skilled in the art.

[0015] Also provided in Table 1 is the name of the vector which contains the cDNA clone. Each vector is routinely used in the art. The following additional information is

provided for convenience.

[0016] Vectors Lambda Zap (U.S. Patent Nos. 5,128,256 and 5,286,636), Uni-Zap XR (U.S. Patent Nos. 5,128, 256 and 5,286,636), Uni-Zap XR (U.S. Patent Nos. 5,128, 256 and 5,286,636), Paluescript (pBS) (Short, J. M. et al., Nucleic Acids Res. 16:7583-7600 (1988); Alting-Mees, M. A. and Short, J. M., Nucleic Acids Res. 17:9494 (1989)) and pBK (Alting-Mees, M. A. et al., Strategies 5:58-61 (1992)) are commercially available from Stratagene Cloning Systems, Inc., 11011 N. Torrey Pines Road, La Jolla, CA, 92037.

Phagemid pBS may be excised from the Lambda Zap and Uni-Zap XR vectors, and phagemid pBK may be excised from the Zap Express vector. Both phagemids may be

transformed into E. coli strain XL-1 Blue, also available from Stratagene.

[0017] Vectors pSport1, pCMVSport 1.0, pCMVSport 2.0 and pCMVSport 3.0, were obtained from Life Technologies, Inc., P. O. Box 6009, Gaithersburg, MD 20897. All Sport vectors contain an ampicillin resistance gene and may be transformed into E. coli atrain DH10B, also available from Life Technologies. See, for instance, Gruber, C. E., et al., Focus 15:59- (1993). Vector lafmid BA (Bento Soares, Columbia University, New Sork, NY) contains an ampicillin resistance gene and can be transformed into E. coli strain XL-1 Blue. Vector pCR®2.1, which is available from Invitrogen, 1600 Faraday Avenue, Carlabad, CA 92008, contains an ampicillin resistance gene and may be transformed into E. coli strain DH10B, available from Life Technologies. See, for transformed into E. coli strain DH10B, available from Life Technologies. See, for transformed into E. coli strain DH10B, available from Life Technologies. See, for transformed into E. coli strain DH10B, available from Life Technologies. See, for transformed into E. coli strain DH10B, available from Life Technologies. See, for transformed into E. coli strain DH10B, available from Life Technologies.

Bio/Technology 9: (1991).

[0018] The present invention also relates to the genes corresponding to SEQ ID NO:Y, and/or the deposited clone (Clone ID NO:Z). The corresponding gene can be isolated in accordance with known methods using the sequence information disclosed herein. Such methods include preparing probes or primers from the disclosed sequence and identifying or amplifying the corresponding gene from appropriate sources of

genomic material.

Plao provided in the present invention are allelic variants, orthologs, and/or species homologs. Procedures known in the art can be used to obtain full-length genes, allelic variants, splice variants, full-length coding portions, orthologs, and/or species homologs of genes corresponding to SEQ ID NO:X or the complement thereof, polypeptides encoded by genes corresponding to SEQ ID NO:X or the complement thereof, and/or the cDNA contained in Clone ID NO:Z, using information from the sequences disclosed herein or the clones deposited with the ATCC. For example, allelic variants and/or species homologs may be isolated and identified by making suitable probes or primers from the sequences provided herein and screening a suitable nucleic probes or primers from the sequences provided herein and screening a suitable nucleic

acid source for allelic variants and/or the desired homologue.

[0020] The polypeptides of the invention can be prepared in any suitable manner. Such polypeptides include isolated naturally occurring polypeptides, recombinantly produced

polypeptides, synthetically produced polypeptides, or polypeptides are well combination of these methods. Means for preparing such polypeptides are well

understood in the sat.

[0021] The polypeptides may be in the form of the secreted protein, including the mature form, or may be a part of a larger protein, such as a fusion protein (see below). It is often advantageous to include an additional amino acid sequence which contains secretory or leader sequences, pro-sequences, sequences which aid in purification, such as multiple histidine residues, or an additional sequence for stability during recombinant

production. The polypeptides of the present invention are preferably provided in an isolated form, and preferably are substantially purified. A recombinantly produced version of a polypeptide, including the secreted polypeptide, can be substantially purified using techniques described herein or otherwise known in the art, such as, for example, by the one-step method described in Smith and Johnson, Gene 67:31-40 (1988). Polypeptides of the invention also can be purified from natural, synthetic or recombinant sources using the invention also can be purified from natural, synthetic or recombinant sources using the invention also can be purified against the polypeptides of the invention raised against the polypeptides of the present invention in antibodies of the invention raised against the polypeptides of the present invention in

ID NO:X, and/or the cDNA contained in Clone ID NO:Z.

incorporated by reference in their entirety. representative example. All references available through these accessions are hereby all of the sequences which may be excluded by the general formula, it is just a identified in the sixth column of this Table. In no way is this listing meant to encompass three, four, five, ten, or more of the available material having the accession numbers polynucleotide sequence(s) contained in the clones corresponding to at least one, two, In further embodiments, preferably excluded from the invention are the specific sequences referenced by the Genbank Accession No. as disclosed in column 6 of Table 3. not consist of at least one, two, three, four, five, ten, or more of the specific polynucleotide respectively, of Table 3. In specific embodiments, the polynucleotides of the invention do the general formula of a-b, where a and b are integers as defined in columns 4 and 5, excluded are one or more polynucleotides comprising a nucleotide sequence described by NO:X, and where b is greater than or equal to a + 14. More specifically, preferably where both a and b correspond to the positions of nucleotide residues shown in SEQ ID minus 15 of SEQ ID NO:X, b is an integer of 15 to the final nucleotide of SEQ ID NO:X, the general formula of a-b, where a is any integer between 1 and the final nucleotide excluded are one or more polynucleotides comprising a nucleotide sequence described by contig sequence (SEQ ID NO:X) listed in the fourth column of Table 1, preferably specifically excluded from the scope of the present invention. Accordingly, for each conception of the present invention. Preferably, such related polynucleotides are and accessible through sequence databases and may have been publicly available prior to Many polynucleotide sequences, such as EST sequences, are publicly available [0054]

	SEQ				
Clone ID	Ž t	Contig	EST Di	EST Disclaimer	
NO: Z	X	D: Č	Range of a	Range of b	Accession #'s
HCFNH88	11	413036	1 - 468	15 - 482	AA299504, BF508870, T12637, AF199509, and AK026089.
HODDW3	12	456287	1 - 609	15 - 623	T83532, BF107206, and R09982.
HPMFI38	13	463734	1 - 542	15 - 556	H12876, N58678, AL514125, AB026116, and AC012153.
HLTDP38	14	465120	1 - 980	15 - 994	BE907584, AW328071, AW341406, AW518651, BF000229, AI985460, AI679820, AI679244, BE349182, AW026569, AI913105, AW167521, AI433441, AI824296,
					AI652506, BE669569, BF224375, AV740400, BE222251, BE551363, AI681756, AW241259, AA352068, AV736248, AV744048, AV741074, AI866013, AI500135, AV740719, BE767739, BF436765, AA363430, AW168483, AW328070, AL119025,
					BF382482, AI696550, BE541237, AV714931, BE538259, BE867712, R08202, AW168479, BF794062, AA330772, AA078255, AL046746, BF805349, F27015, AA569065, AI061313,
					BE676915, AA878352, AV719443, AI921188, AI499503, AL157529, AA626829, AL119259, AA281928, AA745362, R79496, AL1149259, AA281928, AA745362, R79496, AL1149259, AA281928, AA281928, AA285362, R79496, AL1149259, AA281928, AA28192
				-	H21488, AV763469, AA551798, AV727584, N73187, AA878140, AA229444, BE674952,
					BF767878, BF773092, AW970020, AA669709, AU118852, BG106485, BF834522,
					AP000055, AF019413, AL049540, AP001720, AC006121, AP000502, AC010326.
					AC011482, D89870, AF037222, L47234, AP000124, AC020916, AC002073, AC002538, AC009775, AD00330, AT357080, AT158141, AT151825, T105742, AC018738
					AC005913, AL159168, AL021918, AC005586, AC002091, AC005036, AJ010770,
					AC007216, AC022148, AL353748, AC004152, AC007917, AL138717, AC011465, AC001725, AC006530, AL033526, AD000500, AL000181, AC083871, AL02578
					AC006539, AC004972, AL445985, AC005366, AL158218, AC007283, AC004212,
					AL022311, AL031668, U63721, U29895, AC005081, AC006449, AL022312, AC008897, 754336, AC006047, AC002013, AC002013, AC002013
			··		AL049753, AL356020, AL031665, AL022326, AL133246, AF027390, AC005828,
					AL132653, AL133445, AK026841, AC006433, AL096703, AC004841, AC022392, AR023049, AR023041, AL121080, AC020470, AC025052, AR023151, AL158040
					AC015853, AC007225, AC012351, AC002115, AC002429, AL122015, Z93016,
	_				AL136300, AB014077, AL031311, AP001759, AC010458, AF220542, AC020955,

				,	> L	ı					
	HETDT70	HBMUK46		HMTME11	HDPPP46	HUKAB82	HSSMQ84	HSRAL33	HFCBA57	HMHBT30	
	2 2	22		21	20	19	18	17	16	15	
	509728	507310		506893	506828	503441	502907	488966	466000	465711	
	1 - 585	1 - 417		1 - 528	1 - 315	1 - 446	1 - 401	1-956	1-616	1 - 417	
	15 - 599	15 - 431		15 - 542	15 - 329	15 - 460	15 - 415	15 - 970	15 - 630	15 - 431	
AW027246, Al354919, AA283799, AA658062, AA749441, N78633, BE467194, BE856126, BE798857, AW269276, AA810447, AA855098, N35468, BF062174, AI694134, AI985299, AI536933, AA281155, AW594363, AA603857, AA761068, AA826929, AI937825, AW977673, AW014079, N24534, BF332207, BG036203, BF515448, AF035397, AF003627, AC005189, and AF130357.	AA156832, BE893951, AW957032, AV693732, T96213, AA299371, AA321353, AI810397, AU076717, E16580, AF035268, AF035269, and U37591. N37051 N22601 AW977672 RE066705 AI740565 RE216881 RE218331 RE2772	1	F32985, AW262015, AA947394, F32768, AV735940, AA654669, BE739920, AI581721, F27155, AV712832, AA551724, AV685728, AV735940, A351541, D11719, AW778836, T55216, T54839, AA483200, AI300770, AV712712, N87448, BF210823, F36606, BF434132, BF246076, BF830933, BF830813, AA367358, BE927682, AA095761, AI271368, F31064, AI432581, AA169517, F30843, BE827338, AA872144, AK024594, AF147354, AL121900, AC007739, AL035689, and Z55938.	AW953715, AV755865, BF037206, BF978284, AA307934, BE739069, AA873152,	AW402168, BF726407, BE797379, H18753, BE782216, T77980, and BF756401.	R34441, BG256475, AW957006, AA300168, BE886285, AK027199, AC002394, and AC004381.	AA296377, and AA378471.	BF980228, AV761652, AI769998, BF248482, BF570491, AA424644, AW268553, BF979946, BE877187, AW606938, AU130113, BF381651, AI985014, AA773189, BF696604, AA402448, AI214237, N79639, AW195871, AW197891, AA356925, AA293861, AW197782, AW195894, BE895108, BF572423, N54986, AA555193, AK022835, AF058718, AC004492, and X74635.	R56760, AW966299, AA339406, AI692199, R13164, AF150231, and AL121968.	BE868959, AV752876, BF594683, and R29204.	AL033376, AL022165, AC011475, AL021877, AC008274, AC011480, AL109825, AL136135, AC005808, AL157838, AC004929, AL133243, AC004254, AC004209, AL109925, AF187725, AC009756, AL157359, AC008745, AC008033, AP001724, AC008753, AC005619, AC005484, AC005224, AC005544, AC011479, AL137139, AC003665, AL096791, AL020996, AC005911, AC005019, AC020910, AC008925, AC006483, Z84572, AC018448, AC010363, AP000279, AC006139, AC004141, AF245226, U62317, AC006511, AL049781, AC008543, AC011811, AJ239027, AF001549, AL138820, AL133448, AF190115, AP001711, AP001753, AC015846, AP001522, and AP001522.

	HMKAD8	25	523186	1 - 410	15 - 424	AI589211, AW025408, AI625632, C15297, AA704635, AW028123, AI377558, and AA442923.
	HE9NE12	26	524559	1 - 628	15 - 642	BE785096, BE179433, BE787964, BE784506, AW500409, BF085600, AU120753, BE179640, AW178302, AA334799, AL045511, BF571753, BF726397, U85056, and AK001145.
	HE2AX73	27	525950	1 - 305	15 - 319	AW119011, AF009204, AB000275, AF119817, and AF119818.
	HHGBV89	28	527491	1 - 362	15 - 376	
	HTTDC06	29	529791	1 - 468	15 - 482	AW249294, H46549, BF037340, and AB037814.
	HFXKR35	30	532045	1 - 972	15 - 986	
	HHSDL85	31	534414	1 - 657	15 - 671	R12427, and AB049848.
	HTECA32	32	535036	1 - 462	15 - 476	
	HTEHL79	33	535040	1 - 638	15 - 652	BG163316, AA326490, BF511719, AA234356, AW960948, BF911382, AA323651,
	72 11111	2	23/213		17 885	71270214, AC00303, A31073, A310 AC003320.
	HrJBL34	34	536/12	- 808	15 - 822	BG113049, AL517732, BE315014, BF027560, BG257944, BE727070, R60599, BE563463, BG113049, AL517732, BE315014, BF027560, BG257944, BE727070, R60599, BE563463, AA070383, BE206259, R20690, Z44632, AL079371, R21349, BE895144, BE926608, AA351700, AA218584, BE892486, AA973891, BE546412, BF038283, AA102133,
•	HSDDD20	35	538217	1 - 1028	15 - 1042	
02	HCUCG74	36	550208	1 - 861	15 - 875	BE781101, BE540200, AI972511, BE300952, AA464837, BG150212, AI681901, AW172458, AA099207, AW205564, AW408650, AW205714, AA450308, AA636047,
						Al656442, BF437116, BE466112, AW575656, AW962721, AW206882, AA099221, Al620473, AA369585, AW469939, AW136836, BE547752, Al638262, BF059133,
	MANAGERI	3	550000	300	21.	AA236642, BE551958, AW086133, AI917742, AI623315, and AC005391.
	HFIXK94	37	550992	1 - 399	15 - 413	BF366265, AF045448, AL163280, and AF064860.
	HPJAV46	38	551777	1 - 403	15 - 417	BF694069, AW377571, AV763995, BE263530, AW377537, AW377568, AV761917,
						AW377624, BF977274, AW852126, AV703358, AW852062, BE872120, BE164388,
						BE615056, BE797162, BF691137, BF678996, BE901483, AA609994, BF311171,
						BE256747, BF793607, BE253983, AV714212, AL526398, AW852256, BF183197,
						BE736928, AV725124, BF700891, BG260744, BE743248, BF213101, BE250013,
						BG171603, AW377567, BE873419, BF680148, BF312111, BE899308, AV713872,
						BG168000, BE741391, BF308822, BF205067, BF310727, BF203650, BF692699,
						AV708802, BG036583, BG248799, BE207590, BE207583, AI547302, BF304324,
						BF105254, BE272352, BE019519, BE732414, BE622069, AV751860, BF674867,

AW195253, AW022456, AW022571, AV703012, Al652664, AV707458, AV728546, AW087595, AV703599, AW959521, AV702790, Al888208, AV705047, AW952410, AV705416, BE273626, AV705348, AW953797, AV656013, AV709247, AV651920, AV725633, AV702372, AV702266, AV707652, AV696791, AV709407, AV703494, AW959543, AW955723, AV658863, AW021930, BE966968, AW022168, AV728455, AV709587, AW952444, AW950443, AV726559, AV726088, AW020406, AW952403, AW952183, AW959806, AV656903, AW955613, AV661704, AW952751, AV696106, AV697196, AW956075, AV645936, Al473536, AV658084, AV692600, AV650315, AV659389, AW951263, AV6697880, AV727613, AV726010, AV689111, AV728157	13 - 1326	. 1312	201017	ŧ	FIFFDN94
AW241373, AI566355, R46114, H17077, AA939227, AW474575, AI242576, AL513923, T16523, R45283, F10525, AL133383, AP001726, AC087089, AC005670, AC005803, AP000696, AC004808, and AC002425.	15 - 329	1-315	558312	39	HTTDL61
BE300041, BE879936, BE544326, BF685977, BE314894, BE019478, AW852264, BE300351, BF237753, BE256192, BG033184, BF311434, BF686322, BE882480, BG121826, BE293606, AA399320, BF932221, BE395509, BE695712, BG105139, D30938, AV661326, BF68806, BE872697, BE273055, BG249490, BE270150, AV774330, BF683092, AV705448, BF695204, BF206919, AV703060, BE798386, BE882561, BE616007, BG026452, BE298381, BE262277, AW608096, BE070298, BE3131176, BF979365, BE744054, BE812386, AW837967, AW732355, AW410757, BF8166330, BE738991, BE812361, BF314692, BF932227, BF671336, BE812254, BE7106230, BE738991, BE812332, AV711178, BE070300, BG167463, AV710849, BE931905, AV723237, BE812332, AV743501, AW956187, BE259759, BE784936, BF308955, BE900593, AW838045, AW838038, AW608103, AW608101, AW608107, AW608119, R80375, BE812322, BE019582, BE512851, AW608097, BE825686, AA430284, BE812328, AW852120, AW852072, BF203314, BE825718, AV706889, BE899494, AA007300, BF664876, AW837962, BF700537, BE763172, BE825692, BE694306, N28917, AW023727, BE936400, R71432, BE929628, AV702221, AI750601, AW837955, BE311411, AA121281, AW837950, BF667711, AW372196, BF184919, AW372220, BF979547, T54945, AW837950, BF667711, AW3772196, BF184919, AA206647, BF700635, AA385623, AI908145, H85301, AV702882, BE263230, T82198, BF094304, BE394536, AA314228, BF383142, H25321, H25320, AW837966, BF203366, BF106427, BG119810, AA379542, BE612803, AW583199, BE732461, BF105082, BF970440, AV736809, AA332760, BF304301, BF316198, AL520449, BE091914, BE091982, AL039105, AX014088, D14696, and U34259.					

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HYBBG69	41	562024	1 - 1205	15 - 1219	BE220363, BF892160, BE672744, F23227, Al345156, Al334884, Al340644, Al335399, Al336654, BE138684, AV736474, Al334930, Al309443, Al345790, Al345562, Al307520,
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			- -		AI349000, AI312431, AI313350, AI312266, AA417129, AI312414, AI349020, AI312273, AI349251 AI377163 AI310041 AI951257 BG100553 AI470477 AIG24076 AV760002
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					AK025860, AF088991, 177092, AL117394, AK000212, AF132205, AF175983, AL080163,
					AL110228, E13052, Y07915, AF016394, AJ012288, AF130066, AB030200, L13297,
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					AK025889, X57961, L24896, X63410, AF038440, AF113690, X73361, AF151076, AR048994 AF087374 AF287051 AK024538 AT 110171 AF118094 AT 200154
					ADV46774, AFV62524, AF267051, ANV24536, ALTIVI71, AF118094, AL390154,

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HMAGF64	4 43	562775	1 - 1140	15 - 1154	BE903137, BE732613, AI269493, and AK024472.
HACCO38	8 44	563589	1 - 686	15 - 700	AA307960, BF691085, AA366364, AA366829, BF030298, AL046574, AA281830, AW402257, AL133061, AB023173, AX011607, and AF236061.
HRAAM31	1 45	567314	1 - 1232	15 - 1246	AC006230.
HWDAA0	46	571474	1 - 799	15 - 813	BF064019, BF593236, and BF997680.
HTHCV60	47	572607	1 - 471	15 - 485	BF837516.
HTLEV17	48	573110	1 - 415	15 - 429	R85015, H30718, BG251214, T09058, Z42050, AL042216, BF339690, T08045, AL042446, Z41928, H26862, BE765911, H50921, BE714890, AL042272, Al940226, and AB002373.
HCFAB91	49	573179	1 - 425	15 - 439	AI570416, AW510367, T82334, and AU142902.
HMWEE1	50	573751	1 - 687	15 - 701	BF105895, AA062924, BF843990, R75831, BF086558, T94511, BE931013, AI808807, AW020372, BE671627, AI379326, and AW051986.
HTLAI85	51	574924	1 - 340	15 - 354	AL079482, AU125601, BE742829, AL530239, AW371246, AW367415, H49732, BF951592, BF772285, and D86966.
HHPGQ38	52	575287	1 - 648	15 - 662	BG165743, BF570243, BG166577, AA757672, R89840, N62892, N77803, AA873573, AW243945, BF769085, AI915081, AA297789, AI620992, AA503018, AA297006, AA598627, AA714073, AA862029, AI904944, AI185394, AA599532, BF766147, AA598627, AA714073, AW805539, AI816058, AI349130, BF791744, AW833901, BF884277, AI271762, AA780933, F08866, BF891621, AA809186, AA604147, AA302661, BF997771, AW961582, AA483606, AI049630, AA598605, AW880029, AA452325, AW821722, AI114534, AW821724, AI061303, AW264901, BE077105, H80989, AA570740, AW833047, BF447405, AI355246, AA568204, AA482792, AI310670, AA630854, AI570237, AI889579, BF883232, AA228778, N54538, AA642264, AW780190, AA486820, AA405549, AA635413, AL138299, T93109, BE787136, AW970064, AA326904, BF884894, BF885763, AA496268, R67701, BE149998, AI193417, AA482928, AV754399, AW821718, AA664126, BF922719, F35684, AA224807, AA486277, AA838091, AA847064, T83057, AA515939, AA410788, W96277, AW836439, R70883, AU147162, N91711, BF821072, BF857849, BF807722, AA578069, BG250286, AA501942, AV718585, AA365586, AA577824, AI310787, BG056362, AA642787, BF769229, AA020873, AW974363, AV722143, AV708029, AU120416, N64587, R34561, H65213, AA937809, AI306717, BF764105, AI054090, BE379437, BG113821, AA356376, BG150803, AW265688, AA378207, AA584207, AA630122, AL246061, AW871736, BF902460, BF815843, AI038358, AA229422, BF901391, BF845946, AA62777, AA330073, AV7577738, BF0018046, AA62777, AA630122, AL246061, AW871737, AA330073, AV7577738, BF0018046, AA627707, T155007

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HNGER82	53	576739	1 - 626	15 - 640	R16017, AAS70454, R02443, T77361, R16118, AW973414, R06273, and T77056
нвл. 013	54	578925	1 - 539	15 - 553	AL353713.
HCFDC55	55	581501	1 - 474	15 - 488	AI683115, AW614790, AI949946, BE858872, BF939700, AI469900, AW172942, BE327191, AW451782, AI337875, AW239182, AW295271, AI363093, BE440149, AI471556, AI767259, AI683261, AW028130, BE349166, AI281604, AW027661,
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HFKCT25	56	586810	1 - 585	15 - 599	AA341121, and AA341124.
HAPOW05	57	587520	1 - 415	15 - 429	AA827188, BF511504, AW969122, AA504834, AW445204, R01230, BE909102, BG008470, BF951696, T93623, BF529606, AK026482, AB052145, and AF178935.
HCURPOS	×	589293	1-903	15-917	AL037337, BE250656, AL037347, BF690384, BF689438, AA738329, AW263173, AI401287, BF973585, BE646211, AI817738, AI361425, BF684855, AI500309, AA514406, AA781022, AI206043, Al039311, AW513395, AW510418, AA450076, AI582168, AI497642, AW027882, AI457954, AI734913, AI073893, AI493254, AW055011, AL688170, AW316771, AI344050, AW072287, AI304418, BF221940, AA535731, AL688548, AA399110, AA865470, BG056115, AI150686, N39612, AA843778, AI697688, AA503531, AW576502, AI554678, AI207587, AI381981, AI288532, AI342539, AI818835, AA782161, AI819112, AA844177, AA450132, AI675493, AI925355, AI302554, AA649895, AA826525, BF033350, AI279431, AA953657, AW044509, W60405, W81382, AW292965, BG055706, AI042277, AA758738, AI269455, AA594887, BE535387, AI419994, AA916356, AI694804, AI364286, AI351712, AA613382, AV990492, AA609491, AW406097, AA047617, AI864558, AA918532, AA282175, AA810568, AA633214, BE7033250, AA623649, BE250680, AI559917, AW014338, AI918306, BH058804, AI351433, W46766, N93704, AI266616, AA366022, BE298972, BE675634, AA037691, AI382136, C00696, W35374, AA134788, T98249, BG106495, W21588, AI962666, BE273802, AA037690, BF206228, BF526713, AA531006, W23584, AW379851, BE541923, BE904747, BF530226, BF311708, BF683140, BE045182, AI6901891, 148978, AR068751, AW118557, AW11235, BF205354, AA127565, BF128843, BE966499, AW411351, AV759970, AF043611, AF030291, AF001891, 148978, AR068751, AR668751, AF733593, Y11254, AF065135, A76335, A76335, A763355, A7

HE8CX53	59	597069	1-689	15 - 703	AU138655, AA081738, AW965288, T31616, H05397, T07153, AL035908, C14178, R18920. AA129192. AK002120. AL031117. and A80967
HCENB31	60	597213	1 - 494	15 - 508	AW960962, Z43654, AA324303, BF955373, AW897155, AW897153, R76139, R80448, AX023742, AF074483, AJ012188, AF069755, AF099033, AF095784, AF056085, AX023740, AF058795, AJ011318. and AF074482.
H7TMESS	61	597832	1 - 485	15 - 499	I33191, U22491, and E13005.
HDHMA4 9	62	600734	1-912	15 - 926	R35934, H29244, BE207202, R85125, R90888, H05353, AW966265, R14779, H51247, AA338672, R51725, AA488106, AI873131, AI500178, AI480182, F11386, BF530977, D29763, D64009, and D64010.
HBXBG68	63	610609	1 - 542	15 - 556	
HGBFC53	64	613240	1-459	15 - 473	BE549278, BE733028, BF684135, AL523005, BE799676, BF569653, BG025571, BE543724, AU122781, AU118901, BE546787, BE901627, BE619508, BG261003, BF125994, BE867036, BE514804, AU126661, T27149, AA453548, BE872645, BF982234, AA428039, BE732727, H06555, T08101, BF725406, AI372543, BF686296, BF812709, T74159, AA349657, AA137103, F12624, W84358, BG011753, BE271430, BE271832, BF848808, AA464305, T33225, AA210971, BF081773, AI372544, AI567829, AI040013, N30951, BE265922, BE892906, AB033603, AK022488, AK021721, AF210052, AK001318, AF193844, and AF071316.
HPMCK47	65	613734	1 - 1190	15 - 1204	BF996080, W79900, R93661, BF768396, AI015952, R62914, BF433276, C17045, H13468, R23858, AW469629, BF769805, R64187, R63192, BF768469, BF807312, R79604, R64194, R28497, AA583351, AI342016, AI061587, AA330660, AA917802, N29380, AI220948, R81425, AI200655, R25950, AI128381, R79605, R64098, AI220985, BF431082, BF994016, AA729671, AA974341, R62915, BF768468, R81630, R64104, AI094352, AA001841, AP001748, AP001629, AC078847, AC017004, AC016628, AC002416, Z83848, AC010677, AL359313, AL008629, AC006249, AC008554, AC009505, and AF090920.
HAPNX53	99	613777	1 - 466	15 - 480	AV713823, AA482321, AV716627, AV713209, and A90848.
HOFAE02	67	614169	1-511	15 - 525	BE910195, BE783656, BE906341, BG178384, BE048049, BE973606, BE074234, N23506, AA995358, AA293374, N42420, BF970013, N29163, BF743351, BE782150, BF971148, AI924167, AV754940, N31382, AI300946, BG105075, BE896959, AV747543, AV702313, AW510702, AA507156, W38924, BE785316, BE890490, AW188107, H45202, N42404, H40733, AI983025, W95089, AI583243, BE880216, AI301966, W57541, AI015619, T31783, AW006794, BF674585, N33735, AA063083, AW630926, AW168796, BF679757, AA157599, BE858813, BE547758, BF670105, AW051432, R74310, AV742727, BG054826, BF699289, T31262, BE881479, BE879146, T19230, BE693583, AI125994, AW071976, AI360252, AW149790, AW877810, BF727414, W79708, BE714145, AW583802, BE764972, N33907, R23867, T35747, AI912804, 742779, R22630, N42310

76 75 74 69 78 78 78 78 78 78 78 78 78 78 78 78 78		15 - 518	1 - 504	625622	79	HNHGE09
3 68 614801 1-1099 15-1113 14 69 615231 1-613 15-627 17 71 616652 1-740 15-754 17 72 618715 1-735 15-754 6 73 619875 1-1053 15-1067 17 74 620219 1-506 15-520 18 76 625432 1-852 15-866 19 77 625517 1-559 15-573 17 625566 1-431 15-445	BG250040, BG177016, BE867041, BE797933, BE904858, BG163418, BF308249, BE278984, BE256249, BE783475, and BF306765.					
3 68 614801 1 - 1099 15 - 1113 14 69 615231 1 - 613 15 - 627 17 71 616652 1 - 740 15 - 754 17 72 618715 1 - 735 15 - 749 6 73 619875 1 - 1053 15 - 1067 17 74 620219 1 - 506 15 - 520 17 76 625432 1 - 852 15 - 866 17 76 625432 1 - 852 15 - 866	BE543790, AW381236, AL529067, BE736532, AA564706, AW673127, R17632,	13 - 445	104-1	02000	ò	2
68 614801 1 - 1099 15 - 1113 69 615231 1 - 613 15 - 627 70 616154 1 - 366 15 - 380 71 616652 1 - 740 15 - 754 72 618715 1 - 735 15 - 749 73 619875 1 - 1053 15 - 1067 74 620219 1 - 506 15 - 520 75 625334 1 - 657 15 - 671 76 625432 1 - 852 15 - 866	BF726594, BE779521, AI300952, AI352014, and AF085877.	15 - 573	1 - 559	625517	70	HKAEJ09
68 614801 1 - 1099 15 - 1113 69 615231 1 - 613 15 - 627 70 616154 1 - 366 15 - 380 71 616652 1 - 740 15 - 754 72 618715 1 - 735 15 - 749 73 619875 1 - 1053 15 - 1067 74 620219 1 - 506 15 - 520 75 625334 1 - 657 15 - 671	BF570656, BE969659, H05017, BF701826, T78233, T87257, AV757847, AA385525, AL038060, BE868803, BE568456, AK001241, and AC008179.	998 - CI	7 - 822	023432	6	HNIKIIO
68 614801 1 - 1099 15 - 1113 69 615231 1 - 613 15 - 627 70 616154 1 - 366 15 - 380 71 616652 1 - 740 15 - 754 72 618715 1 - 735 15 - 749 73 619875 1 - 1053 15 - 1067 74 620219 1 - 506 15 - 520	AW888543, BF365190, BE006824, BE006769, BF514843, AB046813, AK021844, and AL096715.	13-6/1	1-03/	020334	2	TEMICO9
68 614801 1 - 1099 15 - 1113 69 615231 1 - 613 15 - 627 70 616154 1 - 366 15 - 380 71 616652 1 - 740 15 - 754 72 618715 1 - 735 15 - 749 73 619875 1 - 1053 15 - 1067 74 620219 1 - 506 15 - 520	Therefore A Britain Co. A W 607+10, INJ2063, allu AD027006.	15 /21	757	100303	75	TIENTECOO
68 614801 1 - 1099 15 - 1113 69 615231 1 - 613 15 - 627 70 616154 1 - 366 15 - 380 71 616652 1 - 740 15 - 754 72 618715 1 - 735 15 - 749 73 619875 1 - 1053 15 - 1067 74 620219 1 - 506 15 - 520	AV709174, AV728038, R60629, T83167, AA465291, BG236037, BF672374, AA249224, AA370905, BF360607, BF832703, AW860410, N52683, and AB020008					
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68 614801 1 - 1099 15 - 1113 69 615231 1 - 613 15 - 627 70 616154 1 - 366 15 - 380 71 616652 1 - 740 15 - 754 72 618715 1 - 735 15 - 749 73 619875 1 - 1053 15 - 1067	AI610013, T94721, AA092889, AW104403, AI797647, and AL133104.					
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68 614801 1 - 1099 15 - 1113 68 614801 1 - 1099 15 - 1113 69 615231 1 - 613 15 - 627 70 616154 1 - 366 15 - 380 71 616652 1 - 740 15 - 754	T69560, and T69626.	15 - 749	1 - 735	618715	72	HTRAC41
68 614801 1 - 1099 15 - 1113 68 614801 1 - 1099 15 - 1113 15 - 627 170 616154 1 - 366 15 - 380 171 616652 1 - 740 15 - 754	AW665904, AI673728, AB046816, and AK001672.					
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1 - 610	1 - 1526	1 - 1005	
15 - 624	15 - 1540	15 - 1019	
AL521098, BF574602, BF673499, AL046863, BF316406, AW954218, BF977073,	AU134630, AU133566, AU138245, AU137852, BF574374, BE069938, BF107314, AV704855, AW963336, W23461, AW167802, AA563938, AI127313, AI539532, AA490669, AI874113, D82422, AA226521, AA226177, AI973210, AA386154, AW953092, W05488, AA347504, BF358693, C75173, T55946, AA358324, T52564, AA911206, BF106969, AA336586, AA347630, BF672805, AA452645, AW748957, R82314, T73366, BF369339, AW449322, AI546920, W21489, BF357935, AA366888, W76518, AA091839, BF574018, AA602826, AA362984, AI248642, AA058387, BE176207, BE835004, AA134033, T97372, R00339, R91853, AA004243, AA001805, T57235, T64521, BE090983, AA402341, AA099736, AX047362, AF226614, AF231121, AF215636, AK002038, AF215637, AF226613, AF231120, U76714, and AF147322.	BE274374, BE299307, BG149449, AA149565, BG010137, BG010139, BG004980, AA169366, BE142714, BE812221, BF666656, BE812319, BE079717, BF751577, BF920681, BE939365, BF935231, BE909849, BE270211, BF927251, AB033092, and AC005539.	AA037885, BF149379, AA557820, AA420727, AW009945, AW080975, BF240437, AA161042, AA468253, AA468030, AI673548, H64488, AA480625, AA468378, AI859568, BF002377, AA535652, AI983146, AI350980, AI818509, AI925148, AW662418, AI199399, AA827455, AA079541, AA480512, AA883342, BF062754, AA502790, AA863303, AA088770, AW469772, BF095290, AI598078, AA159167, AW150961, AI680393, BE927147, BE172060, AW004732, AI823701, AI829506, AA531110, AI955306, AW079764, AA113128, AW843113, AI459564, AA923530, AI417943, AI971352, BF996327, AI922193, AA918448, AI918902, AI581153, BE770952, AW959638, BE770956, AA634019, AI826211, BE770948, AA225191, AA551564, AA079509, AI420951, BE770964, AI243971, AA225190, AA468125, AI869906, AA601071, AW375816, BF965441, BF9969183, AW800313, AW129301, BE373532, AI275955, AA159053, AA502486, AA016457, AA652448, AA877926, BE174779, AW351750, AI004857, AW000780, AI955928, AI392924, AW577978, AA877266, AA146605, BE799909, BE798685, AA419294, AW050484, AA131011, AI611286, AL223258, AW843330, AA146774, AW843110, AW837096, H64489, AI720094, AA299239, AA225436, AW510543, AW843310, AW837096, H64489, AI720094, AA550735, BG165820, AA13065, AI861902, AW843353, BF372788, AU076551, AI090945, AW841886, AA936937, BE159024, AA133048, AI674349, AW192473, BF333613, BF767427, AI970009, AA113841, AI493632, AW750478, AA657887, AM659676, AA687538, AF065388, AF054838, AF133425, A91802, AL360086, and AL360086.

HFIYL13	HEEAR13	HE20057	HL2AE73	HSBBC07
92	91	90	89	. 88
656815	656288	656211	655590	655007
1 - 1074	1 - 381	1 - 513	1 - 354	1-632
15 - 1088	15 - 395	15 - 527	15 - 368	15 - 646
AL536911, AL527869, BF245609, BE270323, AA044869, BE893730, BE733057, BF7242916, AL527868, AA306654, BE268826, BE875296, AU149506, BF747701,	R01466, R08954, AA422070, AI204649, and AK000032.	AA587990, AI355697, AW955630, AA328879, AW954613, W01389, AW9999957, AW440737, BE069761, AA476616, AB019602, and AB019494.	AW138862.	A W071881, AW022440, BF593629, Al860915, Al32399, BF248072, Al622029, M51712, AW071881, AW022440, BF593629, Al860915, Al32399, BF248072, Al022266, AA994095, AW0014246, AU74224, AU039833, AL288177, AR002533, AA780157, AA757265, AA627632, AA577687, AI092970, AL046862, AA946602, AL093731, AA179187, AI187002, BF055069, N62956, N75603, AA862619, BE898037, W94925, BF149174, AJ48280, W95269, W00738, AW750555, W95270, AA925092, AA877282, T76893, AA725376, BF375148, BF375228, H70019, H93474, N95238, H92136, AA430388, W92196, N79859, AA860857, H85196, BF027974, H84661, AV743523, AA293150, AL253649, A1718728, N51801, AI524405, AJ382337, AW273559, AI147145, AA352434, AA397987, H01797, H93473, H96838, AA327405, AW084140, W21067, R468856, BF377112, AA369355, H92137, AA421105, AA564314, T84413, W07127, T695522, AI582631, N63627, AL202094, N80289, BE142536, AL269378, AA976190, AW801132, AI660275, AA873627, BF354351, AA931541, AU017335, W05621, R46761, AA937741, AA353783, AI159785, AL28178, AA877001, AA996304, AI471911, AI141409, AA1759188, BG151854, AA652715, AF161509, AC023055, and AC023055. AW957695, BG167431, BF667170, BG0229651, AW628466, BF28684231, BF794745, AA187579, BF027457, A18704419, BF0546672, BF724545, AI187043, BF245466, BF266820, BF794745, AA187579, BF027457, A18704419, BF064672, BF245466, BF2868231, BF794745, AA187579, BF027457, A18704419, BF064672, BF245493, N78134, A1379833, BF211069, BF029426, BF209151, BF668634, AB894530, BF236522, AA282901, N40501, W38050, BF6655564, AW615315, BE897499, BE858489, BF9666130, AA126483, BF211069, BF029426, BF668121, BF207942, BF700860, BF23925, B80164, A1697018, AA4653798, A1572055, N31210, A1280166, A1281293, A1191797, AA918864, A1018252, A14805237, AA864397, AA864397, AA98199, AA93879, AA932915, AA60235, AA1123356, A1124079, AW754363, AA939258, AA181956, AA633371, AA740178, AC0011890, AB034206, and AL110115.

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					AK022744, AK023347, and AK000318.
HLWBH14	93	658066	1 - 528	15 - 542	BE407162, AA188632, BF027256, BE253590, AI765126, BE408498, BF448597, BF057607, BF061666, AI167162, AI149274, AI122952, AI470212, AI740767, H96358
					BF433481, AI240225, AI168425, BF979354, H13281, BF025838, W15511, R69088, AI240223, AA526820, R68610, R67855, R26131, AI760064, H87001, H92608, H95449
					BF507644, AW951915, AA307149, BF439530, BF108898, BF475986, AK000044, and AL078599.
HATDW51	94	659283	1 - 866	15 - 880	BF060905, N40525, AI347028, AA017496, AW594216, AI040075, AI039421, AI458626,
					AA286737, AI241136, T76946, N26680, BE503575, AA287611, AW085657, AI039280, AA651849, BG057152, H81831, AA628122, AA806765, AW613553, AI445047, W95380,
					F13174, N46574, A1191989, A1191995, BF833339, AW662034, AV709642, AA659062,
					AW795253, BE816357, BF743976, and AL135744.
HDPWQ69	95	659380	1-613	15 - 627	AA458518, and BF929403.
HNTBM67	8	659801	1 - 1057	15 - 1071	BE883765, AL134955, AA307472, AW960339, BF949791, M78461, AU130812, D56412,
					AA826373, AW382553, AB014509, AB011159, D84346, and X80029.
HAIDY03	97	660532	1 - 525	15 - 539	AI061582, AV727485, BE709741, AV726610, AA334472, AW965472, H10895,
			_		AA487327, R94251, T82868, AA487348, AW663438, AW005046, RG251451, N76030
					AW994061, H14927, AU148042, AA057050, BE779718, BF693286, AA249224, T87261,
HDPD012	8	661436	1-813	15 - 827	N30852, BF969528, BF025927, AA649075, BF315460, BF673758, BF726778, AA044232
					AA425185, BF316493, BE260771, AI554723, BE047920, AI311315, AW029340,
					AI523953, AI275026, AI066488, AI863172, AA578642, AA417368, AA643942, AA578642, AA5786
					AI024499, AA771979, AA889325, D63281, N30846, AW072029, AI032053, AW973064,
					AI268393, AW511845, AA745462, AA504479, AA722399, AV693812, BE777538.
					W87547, W31335, A1991341, A1004929, AW389246, BF247509, AA527348, A1033919,
					A W881217, AL343828, R12706, N92451, AA812821, AA991616, AW071205, AL092319, AA955648, A A055130, AL58413, AL014703, A A568733, AL007773, A A586676
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					AA770508, AA476252, BF592563, F28098, BF060869, AA523469, N90683, H79071,
					AAU94921, AA262932, R78468, H13151, AA937835, F19025, AA740856, BF591772, AW071810 AW607504 A 0044771 A1870108 AW607508 BE438600 1104564
	L				AW0/1010, AW00/334, AA0443/1, A16/0106, AW00/628, BF438690, H04364,

						BE938328, AA055051, N41379, AW262852, AA504556, AA101604, AU121888, BE166026, BE855379, AW864878, R16450, AI859479, AW970118, AA515190,
						AA618357, AU147619, AI239641, N83997, H94808, AI032027, BE812158, BE166064,
				-		BF091989, AI738961, BF091992, AI084177, AW751676, BG099186, BF870262, AA210633, AW168939, AA299420, BG058939, BF765530, BE925027, C01735,
	HAGROAS	8	709199	1 153/	15 1520	BE171344, AV709813, AX014301, AK024167, and AX014305.
	וואטטכיי	77	001094	1 - 1324	10 - 1038	A1315506, AW471197, A1377132, A1681742, A1332991, AW269403, A1377465,
			<u> </u>			AA456746, AI685315, AI263428, N93369, AI374952, N32714, N23006, AA884641,
						AI218150, W24957, N95585, AA226426, AA773714, AI140445, H17820, AA253264,
						T86889, AW269001, T86888, AA226563, AI033243, AA041235, H17819, AA358475,
						K16622, K16564, W25386, AA883664, AA773710, R16637, AA040797, BF509086,
	HNTNT65	100	662513	1 - 466	15 - 480	AW390157 RE250250 AA984504 RE872063 RE376487 RE034222 RE023015
						BF089975, AW294491, BG013986, BF733484, BE938102, BE719457, BE719459.
						BE935304, BE935305, AA385992, BE935592, BE907538, AI364918, BF334977,
				_		31921,
	03 V V JAMES	5	115001	1127		BE/04138, AXU11043, and AF151799.
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						AI935626, AI245410, AI151377, AA877741, BG152881, BF222016, R09207, AI913677,
						BE174769, AI027090, BE049632, AA991755, AA889277, BE327905, AI217584,
						AL023280.
	HAGBX32	102	666416	1 - 625	15 - 639	H04905, W29095, H11833, AW875327, AF134640, AF100346, AC004125, and
	HHTMM1	103	666429	1 - 531	15 - 545	AA258921, BG026982, BF056154, T11903, AB037838, and AL0503333.
	HHFGR08	104	667779	1 - 1565	15 - 1579	BE748748, BE748510, BG255761, AW393085, BF240527, AW976133, AV707941, AI742057, BF102537, BF241358, BE748448, AI264355, AW875250, BF242245
						BE748211, BF243467, AW875242, BF242831, BF215321, AI435473, BF213944,
						BF213952, BF028653, BF243295, BF243838, BF214842, BF243749, AA676810,
						BF242687, BF242568, AI884446, BF031764, BF241173, BF215271, AW452347,
						BE043080, AI280708, AW152544, BF243754, AA284643, BF214962, R83315, AI687112,
						AI538659, BF239594, H60297, BG180852, R99166, BF214678, AA134487, BF215366.

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					AW875361, BF241309, and AA211082.
HHBEU19	105	668286	1 - 510	15 - 524	W00819, AW963996, AI949555, BF245063, AA377198, and AA249131.
нwввв21	106	670586	1 - 699	15 - 713	AW468066, AW238267, BE618753, AW897644, R14231, AW897647, BE179313, BE963215, BF814967, AW872506, BE173335, BF912222, and AK000143
HAIDX85	107	672653	1 - 2052	15 - 2066	AL534096, AL534095, BG259886, BF970703, BE304636, BE536920, AW973921, BE301321, AW386287, BF982614, BE818465, BE018698, BF314421, BE741216, BF726009, BE138864, BG116337, AW000899, AW630010, AI924067, AA114200, AA568911, H09030, AW613797, AI569625, W28817, AI718322, AI717373, AA256422
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					R18735, R11595, BF857926, BF920704, BF822773, AA147297, AA340634, BF954410, BE868860, BF949714, AA147186, AI444616, AI022477, T89971, AI444617, AI808006, and AK02744
HMMAV0	108	675380	1 - 629	15 - 643	AU135561, AV752385, BG060175, AW378313, AW378316, BF680418, AB002347, AK026998, AL049843, and AK026948.
HISAM25	109	677920	1 - 779	15 - 793	BF531021, R55610, AA179088, AU132929, F07005, BF725066, AI143877, BF693602, AK023273, AX047351, AB040930, AC024167, and D45913
HRODX93	110	678316	1 - 712	15 - 726	AC006262, AC024698, AC024698, AC024698, AC022273, AC023349, AC023349, and AC023349.
 THEIDNOZ	- - -	0/8619	1 - 3243	15 - 3259	AL521457, AU51591, AL521456, BG028004, AV661958, BF981848, BG257469, BE560747, BF037795, BG261369, BF510976, BF791665, AW378643, AL134642, BE613309, AW960340, AI692896, AI952060, BF677984, BF349860, BF432744, BF676148, H93052, AA156070, W85861, BE072769, BE004809, BF830574, AA195128,
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					AA306855, AI752573, AI074572, AW272230, AW977732, AA001953, BF130159, AA165681 AA004671 AW662300 AA162020 AA642741 AA562300 AA165681
 •					AW386169, AI082391, Z44330, AA121127, AI214614, AA635553, BF246170,
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HMCFA76	114	684293	1-560	15 - 574	BF969528, BF315460, BF025927, BF673758, AA649075, BF726778, BE260771, BF680729, AA805252, BE047920, AI311315, AW029340, AI521451, AI805148, AA425185, AA643942, AI087161, AI336402, AA101605, AI554723, AI498798, BF316493, AI523953, AA405814, AI275026, N30852, AA578642, AI066488, AI863172, AA771979, AA417368, AI024499, AW973064, AA889325, AA504479, D63281, AI032053, N30846, AA527348, AW072029, AA535747, BF247509, AI299774, AI191773, AA044232, AA405813, W31335, W87547, W87448, AA532648, H19832, AA722399, AI268393, AW511845, BE777538, AV693812, AA745462, AA055130, AI991341, AI004929, H19862, AW071205, AA252648, R12706, AA586676, AW389246, AI033919, AW881217, AA812821, AI343828, N92451, AA991616, W20305, AA228934, AI092319, AW881217, AA812821, AI343828, N92451, AA991616, W20305, AA278934, AI092319, AA076252, AA094921, F28098, F32688, BE772781, AA523469, AA770508, H79071, BF592563, AA937835, R78468, BF060869, N90683, AU121888, F19025, H04564, AA262932, AI870108, R16450, H13151, H94808, AA101604, BE938328, BF591772, AA740856, AW071810, AW607594, AA504556, AW607628, BF438690, AA055051, AW262852, AA618357, AW864878, BF166076, BF855370, N83907, A1850470
HTHCM28	115	684309	1 - 1973	15 - 1987	AL524312, AL522827, BG260938, AL516117, BE792575, AI922738, BE873250, BG180370, BF311244, BG121041, BG036096, AI742798, BG031508, AW473070, BG180370, BF311244, BG121041, BG036096, AL524313, AI521861, BG164176, BG178428, BE621819, BE876480, AW965166, AL524313, AI521861, BG164176, BE207270, AU154596, AA156048, AW796242, AW605147, BE081689, AW608807, AL937084, AW385322, AU147492, AV716431, AU148219, BF197439, AW474818, AW071089, AW247207, BE301182, AW834827, BF997412, AI393092, BE220183, AW150166, BF698915, AW247815, AW129619, AA593405, AW439761, AW366702, BE167300, BF058546, AI191767, AU157014, AI827281, AA055259, AA082848, AW474734, AI274887, AW292560, AW292339, AI681022, AW937927, N71255, AA454912, AI754310, AA961126, AA454836, W01562, AA088679, AI050679, AI467791 N58730, BF851421, T30213, H79378, AA157459, N62405, BF754744, BE082261, AL138072, AA112191, AW105535, AW206734, AA055258, BE183938, AI187893, AI630182, Z40024, AU157710, AA759028, AA086241, BE835912, T81323, R01268, N72641, AA679367, T07142, BE061996, BF964279, H79267, H27407, AA972254, AA204677, BF986068, BF062635, BF798884, AA995340, AW237668, AW772066, AW900962, T81852, Z46058, AA557468, H28601, BE812021, BF353337, T32580, AI536616, AL044924, BF849656, R01382, BF712735, AI434054, BF743715, AW70248, AW70248, AU536616, AL044924, BF849656, R01382, BF712735, AI434054, BF743715, AW70248, AW7

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HNFIL 36 120	738 119	55 118	K15 117	345 116	
685604	685495	685340	7 685191	685054	
1 - 762	1 - 2418	1 - 701	1 - 995	1 - 620	
15 - 776	15 - 2432	15 - 715	15 - 1009	15 - 634	
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			<i>22</i>
HMWIW4	HWACC64	HDABD32	HJKSC77
129	128	127	126
703503	702658	699216	698634
1 - 1437	1 - 758	1 - 459	1 - 486
15 - 1451	15 - 772	15 - 473	15 - 500
AW964211, AV715723, AI133171, BF056982, BE256492, BG179131, BF112079, AI344307, BE278346, AI002167, AW575319, AI191619, AI762132, BE326361, AA279101, BE278358, AV716566, BF939523, AA548744, BE220654, AI338615,		BE900337, BE903374, BE900986, AA282606, BF814200, and AK023151.	AF192401, AF192402, A08911, AR068753, AL080124, AL162002, AL137429, L13297, AK0277114, AF130066, AL137526, AK02438, X87582, A400937, AB047623, AF119865, AL133081, AK025414, AX019229, AL117460, M86826, AB007812, AB052200, AF260566, AF106657, AF208026, U42766, AL137521, X55446, AL375403, AY004290, AK024524, AL389939, AF113019, AL133067, AL389978, Y11234, U67958, AF067420, AF609506, AF217987, AR059958, AL137554, AK027160, AF017152, AF119857, 120339, E30334, AF026008, AL050108, U73682, AB032264, AL12718, AL137273, S76508, A0005690, U72621, U49908, AK0224570, AL136842, L19437, AK027102, U70981, AK027096, AB048964, AL137560, AK026518, AK1952615, AK027213, AF238278, AF047443, AF094480, AL137260, AK026518, AK195953, AK027213, AF238278, AF047443, AF094480, AL137269, AK026518, AK025465, E01614, E13364, AF057300, AF057299, U72620, AF035161, A08907, AF126247, AL050024, AB041801, AK026959, AK025407, AL161953, AL137459, AB033881, AL1177885, and AR077210, BF271500, BF271669, BF768855, BE904974, AL529245, AA165446, BF207871, BF672390, BF511669, BF7818653, BF212797, BF132353, BE556591, BF208449, BF506185, BE886046, BF784268, BF718193, BF712797, BF132353, BE556591, AV692206, BF711500, BE613870, BF692060, BF628915, BF217003, BF23987, AK063549, BF744941, N36033, BF698746, BF23984, BF524981, AV604559, BF754702, A1750420, BF672085, BE567889, AV728059, AV728059, AV728069, BF23997, AW603584, BF605906, BF239234, BF698679, BF677397, BF6669008, BF2172310, BF217631, AA334848, AA079814, AA344673, BF244900, R31063, BF0286732, W21391, BF929939, BF208394, BR855903, BE614475, W37976, BF208978, AW392722, AA3392536, AA005078, BF027765, AA253190, AA460569, BF38903, BF208394, BR851236, AA37054, BF6265284, BF028978, AW392722, AA392536, AA005078, BF028734, BF208981, BF23984, BF028650, BF31893, BF208394, BR851236, AA37054, BF028978, AW392722, AA39486951, AA005078, BF028334, BF208981, BF23984, BF028539, AV393634, BF028531, BF028534, BF028534, BF028534, BF028534, BF028534, BF028534, BF028548, BB184246, A13796067, W37757, BE147774, A1305828, and AF22019

HTOJF39	HSLGO34	НЅДЈЈ72
132	131	130
707266	706987	705030
1 - 1423	1-511	1 - 634
15 - 1437	15 - 525	15 - 648
BE621745, BG164387, BF574824, AL045714, BF672339, AW968371, AI762887, BF589414, AA465412, AI927679, BE644646, N79630, AW131135, AI802356, N63954, AW052111, AA688055, BE049217, AI222346, AW131189, AA194362, AA455696, AA814052, AW151362, AA810129, AA417791, BF576898, AA417695, R30902, AA453295, BF693456, BE827797, BE714257, AI825696, BE714293, BE714247, BE714219, and AC004990.	H14987, H12917, and AA035197.	BE278191, AV752354, BF062335, BF061703, BE221006, AI337155, AI951768, AI361961, AW166120, AW733299, AV753159, AI742696, AI148802, AA258288, AW374032, BE218733, AI6559040, AA765906, BF210670, AW243138, AI488943, AA947700, AA005338, AW968472, AI13522, BE467027, AI738782, AV739442, AW971767, AA028765, AI652006, AI540795, AA947646, AI301578, AA25837, AI419304, BE221285, AI073760, BF594676, A9914313, AA704914, AA915934, AA6592947, W84709, AA677001, N47492, AA704721, AA287290, AA281053, AI783633, AA259130, AA459259, AI268517, AW664821, AI038536, AW612238, AA005432, AA058767, BF195829, AI129070, AA765582, AI244919, AI073770, AA307105, AA085232, AA255946, AA057872, AA765282, AI244919, AI073770, AA307105, AA085237, AA255940, BF2346477, AW466421, AA005431, AW205813, AI422501, H52413, AA352940, BF2346471, AA491238, AW805923, AW136823, AA481490, AW206396, BF437272, AA353070, AA769172, BE940706, AA357780, AA360882, AA085163, AA744140, AA481157, AA491288, AW805923, AW136823, AA481490, AW206396, BF437272, AA215824, AW88931, N47491, AJ64893, T34544, T34585, H49180, BE787366, BG180435, R81120, BF986319, AA448931, AA452418, AW750022, AI239702, AW019901, AF151856, AF161495, AK025738, AB028628, AL050261, amd AL132874, AU38473, AU149509, BF206691, AA654002, W95497, AA77148, AU026045, AM913847, AU149509, BF206691, AA654002, W95497, AA77148, AI026045, AA974245, AA401911, W95584, AI948932, AW027666, AA765907, AA032772, AW204082, AA078862, AU953690, AI948922, AW027666, AA765907, AA062740, A1040594, AA644260, BE790426, BG106683, AL277243, AA343039, AA523862, BF911432, BF340988, AA429635, AU085486, AA406088, AW86791, AA139668, BF821760, BE408029, AW804773, AW804773, AW86791, AA139655, AU062296, BF821760, BE408029, AW804773, AW86791, AA139655, AU602294, and AK022745.

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R98276, BG011064, BG004978, T95945, W33061, AL136139, AC012558, AC000047, AL109935, AL136298, and AL365505.	15 - 895	1 - 881	711706	141	HLWAH41
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AA599042, AL109865, and AL136133.	15 - 713	1 - 699	708177	136	HHEDM89
AI377407, AW973933, AU159464, AI591053, AI140794, AA085176, AA568840, AW059669, BE328386, AU142080, BF242387, AA085250, AL533715, AL525916, BE563312, AF036035, U90094, U73167, and AF040710.	15 - 1076	1 - 1062	708053	135	HMEIU36
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HMJAX17 144	715359	1 - 708	15 - 722	BG261392, BF752467, AA194257, AW511409, AI912611, AI350842, AI497969, AI991928, BG109534, AI061156, AA744999, D53392, BF349631, AI680322, H11244, H07921, AI697635, T07017, AW367919, H11599, BF514837, AI610452, BF516523, AI909924, BF844285, AW151974, BG113493, AI866469, AL043168, AI872423, AIA67238, AI866465, AICA6728, AIRCA6728,
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				BE885490, AI354998, AI473536, AL515195, AL046595, AI371251; AI866510,
				BE908744, BG257535, AL514579, AI923046, AI434242, BF795712, AI581033, BG170937, AI538885, AI242736, AI671642, AW151131, AL119399, BG255903
				AL513913, BF811804, AL036705, BF037001, AL569637, Al440260, AL047100, BF814450, Al804505, Al648567, Al561170, AW0022003, BE817961, BC178660
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5 717449													
1 - 836													
15 - 850								<u>, </u>					
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HFAUL30	HKADW4	HADMD7 5	нснмо09	HLYDR60	нанвс57	
151	150	149	148	147	146	
721084	720269	720237	719977	718768	718574	
1 - 598	1 - 684	1 - 473	1 - 455	1-816	1 - 467	
15 - 612	15 - 698	15 - 487	15 - 469	15 - 830	15 - 481	
BF237693, BF237493, BE910607, AI432454, AW081785, AI436367, BF107426, AI191303, H27059, AI797479, AI188727, AI554783, AW970445, AA513753, AI090223, AI833007, AI886832, AA927473, BF764960, AA400632, F26406, AI148002, AA676886, AI142293, AA740345, AI815728, AW955899, AA536076, R07547, BE408046, BE276764, AA400317, BF944449, AI336523, BF025828, AA978356, AI017725, AA468753, AA630607 AV701170 RE615020 R07404 A1128273 AA724081 MA1602 BE378717	AW502825, AL133572, and AB031230.	H29006, AA533117, AW409667, AI341147, AI681129, AI433410, AI955317, BF058231, AW341107, AU154665, AI885266, AI027623, AI692534, BF061372, AI808909, AA099037, AA778251, AA923181, BF222564, AI276678, AW474492, AU160729, AI986154, AW135263, AW968197, AI420387, H09118, AA659407, AI347168, AA404602, AA905366, AA868124, AV722317, H11272, BE300278, AA503263, AW137535, AA365338, AA402925, AA404732, AI675497, AA468344, AA405418, AF116574, AB014534, AK024064, and AF116573.	BE613615, AK025890, AK025426, and AB052134.	BE794685, BF685787, BE559983, BF685796, BE901125, BF307363, W73305, BG032061, BE873880, BE908758, BE884244, BE383845, BF797375, BF685559, BE728296, AW247236, AW131606, BE743302, Al399295, BG250395, BF678238, BG025457, BE728684, BF945968, BG027834, W51974, AW247847, AW966049, BE222587, AW027873, AV721989, AV721557, AW675648, W73040, W42520, Al817056, AW300280, AA121659, BF593810, AA365379, AA134508, AA524058, AA412645, AI026068, BF740089, AI480061, W16993, AA479840, BE904614, AI754885, BE834332, AI352460, BF693306, BE502119, AI363176, AA327589, BF108596, AA779872, AW673295, AA130538, AW025075, BF926042, Al022138, AA580472, AA379467, BE897396, AI300897, AI361310, AI338260, AI167748, AA535710, AI355996, BF196715, AI421227, AI797313, AA479718, AA536001, AA962145, AI085885, AI220550, AA4712522, AV709718, W27857, AA719209, AA471180, AI309990, BF575516, AV706626, AI439502, AA215620, BG178778, W48677, BE699918, AW438416, AA770281, F35909, AA747411, AI818184, AA094707, AI263330, AW009191, AA215438, AA996110, AI241132, AI906614, BE832963, AW075282, BE170593, AF151888, and AL121938.	AL518503, BE794141, BE246462, Z25363, BE246431, BE244577, BE393376, BE378295, BF355272, BF761359, and AC010271.	AK001994.

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HKGBC30	HDTES50	HARAX45		HEOOA49	HE8FL67	HE8MO09	HKADD23	
159	158	157		155	154	153	152	
724352	724196	723491		722648 722943	721418	721141	721126	
1 - 661	1 - 423	1 - 1318		1 - 587 1 - 588	1 - 579	1 - 508	1-632	
15 - 675	15 - 437	15 - 1332		15 - 601 15 - 602	15 - 593	15 - 522	15 - 646	
BG035611, BG035535, BG166365, BG177010, BG178383, BE748164, BF031940, BF576496, BF667259, AW957446, BF970907, BF969397, BE737557, AA195158, BG029795, BF989378, BE737837, AA243408, BF672780, W42956, BE784012, D79834, D79740, BF742804, AA456700, AV688175, AV692424, AI337976, BG122569, AA456532, W78894, AA397777, AA242916, AA373082, H79467, R80629, BF516139.	AW340512, AI807894, AW963850, BE885860, BG105462, AW082409, BF351584, AW054749, BF508549, BF508665, AW593064, BF365625, BF365626, R94399, AC008772, and AC025442.	AA057431, AW960708, N32151, AI125765, AA436463, N36198, AI082017, AA047763, AI806698, N24164, N24756, N22835, AI092759, AA318287, N31576, AI216856, AI082301, AA015986, AA054280, AA609296, W96296, AA436511, N72140, W00409, AA490273, AA490373, AX032551, AX032553, and AF071787.	AA078293, BF910909, BF326115, BF379108, BF316947, BF935452, BF999044, BF814195, BF822246, BF904758, BF985732, BF919287, BF814194, BF897159, AW800319, AW800296, BF326439, N43800, AF208291, AF207702, AC073184, AF170301, AF273680, AF208292, AF170302, AF144573, and AF077659.	R15032, AL534035, and AL536176. H85811, AW803024, R85057, BE260893, BF919286, BF897158, BF762192, BF762184.	BF795551, AV750730, AU127443, AW504749, BG119102, BE392473, BE540551, BG177251, BE018501, AU124097, BF589465, AI000771, AW613130, AA860505, AI637664, AA385917, AA884192, AA810287, AK022818, and AK022558.	H23031, AA331581, BF366206, AA332819, AW938036, AL352979, AL356020, and AF045022.	AA931186, AA670492, AA811357, AF202331, AW225341, AA542849, AA353038, BF978324, AF261688, and AC007400. BF315291, BE267287, BF315497, BE409386, BE727973, BE547473, BE254803, BE903798, AW958022, BF211629, AV742567, BF030620, BF129983, AW161511, BE886469, AA156149, BF242212, AA461616, BG167446, R20826, BE314226, BG253099, AI738546, T32235, AW993447, AA318338, R20384, AW957658, AV711296, BG110799, BG105200, BF509227, BF058787, Z45686, AA453377, AA328523, BG110799, BG105200, BF509227, BF058787, Z45686, AA453377, AA328523, BF105125, R14248, AA075653, H10803, T30405, AW027919, AA482042, BE159472, BE159566, N55717, AA453972, AV7112723, D58774, A1952258, AA453279, R60405, AA902471, BF208352, AW009749, BE904453, BE080502, AA461443, AW248974, AA236036, BF958143, BF229761, BG000176, BE699400, W58220, BF447253, A1088211, AV7114273, AW768492, AF151826, AK025884, AF037601, and AL137283.	A1879456, A1500369, AA252085, AA368986, AW368694, U75998, AW363134, BE695889, AA633704, A1815926, AA947905, AA199605, AA838338, AA707248.

HAUES18	НЕОВЈ81	HTLFI39	HKIXO37	
103	162	161	160	
/23633	725228	724950	724432	
1 - 004	1 - 1417	1 - 571	1 - 486	
15 - 668	15 - 1431	15 - 585	15 - 500	
BF96458, BF671990, BF692987, BF672825, BF126207, BF672860, BE278557, BF695073, BF576696, BF575966, BF672017, BF670459, BF576056, BF672797, BF672709, BF790889, BF671326, BF671275, BE971388, BF671415, BF671804	AL526015, BE9022S1, AL535577, BG119712, BF795162, AI972730, AI670995, BE385522, BE781482, BE867114, AI675678, AA399402, BF131361, AL522964, AI936663, AI805772, AW963715, AW005423, AI884407, AW083827, AW954601, BF196259, AU131935, AI933357, BE967468, AI277095, AW276015, AA447620, AI697985, AI912309, AA233630, AA069925, AA448020, AI192598, AA947274, BF511366, AI201913, AW675389, AA422152, AA448454, AU076532, AI199457, BE770857, AI222722, BE221191, AI933308, AI285314, AW299680, AI933319, AA0099713, A1039091, AA694501, AA59388, AL285314, AW299680, AI933319, AA0099713, AI039091, AA694501, AA59388, AL285314, AW299681, AI273260, BF448335, BF755788, AA398654, AA398362, AI564858, AW081385, H80365, BF433555, W23160, A4333696, AA6335633, H09156, AW611985, AW512416, AI003286, AU153286, AI338001, AA350419, AA298504, BF885316, AA827591, AA809864, AA469451, R40317, AA297589, AA463393, AI261957, AI264460, AA297851, AA991627, AW952374, AI122589, AA809865, AA100151, AA338738, R44669, R13235, AA352547, BF476212, AA555202, AA325687, R41569, AW162831, AI940474, H09213, AI940457, AA082600, AI940491, BF932644, AI940480, AA302916, AI267918, AW952768, BF001386, AI473741, AW779351, C03526, R19419, AA009823, AI352026, AW301607, AW875742, R15147, BF922047, AW875384, BF76689, AA666086, AW162723, AA471272, AW373384, BF76476, AA091173, AL040390, AA678873, AA987875, AI923061, AI383804, AI360195, BG257545, BE011885, AI640708, AC002481, Z66370, AK026603, AF254119, Z48796, A49118, AL137555, AK025549, AR008251, X69711, AL133093, AK027114, AL137539, AF192401, aAF192402, and AF217967.		AA258991, AA287202, AA148138, BF513439, H44277, BE873001, AA134264, AA459315, BE244273, AW294863, AW798207, AA278370, AI566279, AW968424, AA278138, AA769400, AW968318, AA742355, and AK027028.	D79679, BFI31434, BE772150, AA304747, AW846336, AW375604, AI961425, AW959662, BF036652, AA160349, AA195029, AW375609, AW375470, AI826719, BG113642, AW751979, BF909045, W25422, AA159869, AI078789, BG251904, BF909852, BE645639, BF909048, BF908167, BE738443, H79246, AI279715, W47528, AA731913, AA723821, AI271712, W84668, AI274822, AI276459, and AA478098.

BE222636, AI961104, BF436334, AI884733, AW246570, AW028772, AA888944, AI937479, BF436910, AI148511, R17483, AI986047, BE645600, BF958197, AI670139,	15 - 926	1 - 912	725822	164	HHSGV20
AJ242962, AF132046, AF132045, AJ242961, AR028524, and AA192565.					-
AF148538, AF132047, AF320999, AJ251383, AB020693, AB040462, AF148537					
BE868496, AF125103, AF077050, AF132048, AF177332, AB049853, AF087901,					
BE873739, BF346570, AW897156, BF574980, W47036, AA021021, BF672048,	_		·		
BE738965, BE379711, BF687772, BF576739, BF573934, BF245036, BF031142,					
BF671114, BE694253, N77358, BF725117, BE007854, AW995367, BF570468, BF693136,					
BF670941, BE259158, R96423, BE080807, AA076201, BG168165, C14200, H96142			-		
A W 995509, AA151125, BF092708, N51239, 181226, BF965794, BG114654, N23613, A3371486 RF500655 A V747736 RF790651 RF600457 RF566100 RF671765					
171810, AA081840, AV702687, BF749150, AA303835, BF790177, W48742, BF952838,					
BF574105, BF671234, W19258, BE080786, AA088462, W68688, BE763621, BF693360,					
BF790642, BF126139, BG109465, BF033622, BF034364, BE080952, BF130487, N55351,					
BF575764, BF574531, BF789918, BF692868, AA329773, BF695212, AA307342,					
AA341035, AA111869, W27023, AA196311, BF791087, BF670819, AA192599,					
BF574875, BF692911, BF693339, AV725869, AA100508, BF693401, BF671250,					
AV754040, BF825169, BF673925, C15922, AV729281, BF574550, BF693473, W68781,					
BF575370, AA193133, BF694481, BF693258, BE537668, BF693691, BF693398,					
BF574539, BF693087, BF031510, BF695222, BF694370, BF576549, BF029400.					
BE568846, BF208829, BF791128, BF694585, BF695292, BF570751, BE866290,					
BF694889, BF692913, BF670649, BF789989, BE380150, T80234, BF694559, BF576530					
BF576128, BF692821, BF670926, BE564826, BE732617, AI 533199, BF790734					•
BF576606, BE564325, BF672465, BE967564, BF577181, BF673070, BF575476					
BF576728. BF671430. BF126405. BF568532. BF671862. BF576326. BF866564					
BF6/0491, BE/33819, BF6/0790, BF/90838, BE969918, BF5/4822, BF20/645,					
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BF576598, BF694869, BF671617, BF671443, BF671115, BE018510, BF693272,			-		
BF672234, BF575200, BF575647, BF575471, BF672014, BF577028, BF693656,					
BF575626, BF670636, BF576075, BF790444, BF672379, BF672700, BF671585,					
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HEONV59	HLYBU12	HDPGD34	HRAAO53	HNECD53
170	168	167	166	165
728861 728903	728763	728098	728064	727386
1 - 963 1 - 431	1 - 757	1 - 850	1 - 549	1 - 785
15 - 977 15 - 445	15 - 771	15 - 864	15 - 563	15 - 799
AC034291.	AV711357, AA024565, AA454227, AW450093, AA426141, AL515137, W86795, BE894727, W87294, N92155, N46587, AA025318, W03644, N58008, BE893334, BF589668, AV726302, AA453645, AA345255, AW593927, BE672946, AA812729, AI915387, AL110420, AW664342, AA122344, AW770845, BE328340, AI743045, AI869288, AW771192, AI017204, R38111, AW974592, AA174165, BE768909, BF967003, F09335, BE788737, AW263305, H63885, BE622642, AA454228, BE088462, BF436458, AW304194, AA768532, AI138879, AI860270, AI374771, AW514315, AA811368, AW451628, AA972721, AA668674, AI627681, AI138747, AF113539, AK027258, AL136504, AF225981, and AF181121.	AU133208, BG255170, BF346276, BE396319, BE719458, BF326883, AW499756, AI929577, BF343013, AA331962, AW501305, BE072706, AW501302, BF365052, C18077, BF335090, BF335074, BF335077, BF335088, BF335075, BF335078, BE072813, BF335091, BE926894, AV748888, BF910717, BF373903, AW996974, BF795573, BF476128, BF476077, BF575671, BF743862, BE245226, AK001718, AL080250, and AL162046.	BG180300, R14303, BG180366, Z45229, AV716542, AA827229, and AW977731.	BF115307, AI651793, AW028535, AI972738, AI026845, AI797316, AA932228, AI818634, AI200838, AI767264, AI885011, AI651316, AW294043, AA351410, AI864915, AW956099, AW016371, D51213, R52574, AA304817, BG055746, AA325568, R42830, BE503876, AI871615, AA989336, AI637493, AA890222, AA351409, BF744896, BE622127, AA338951, R40721, R43297, R52526, T46991, BE622940, AA932798, BE504323, C14248, W52698, Z25285, BE670403, AW953345, R61467, AA365030, T46990, AA323378, C14217, AW304747, AI198190, AA757552, AI765583, AA716499, AA757803, AW952645, AI439830, AI491767, AI869586, AI336473, AI310488, AI368168, AI493465, AI343940, AI346860, AI189795, AB025186, and U51204. AL520253, BG113028, BE730840, AI692661, AI990927, AW576597, AI962731, AA151527, BF434287, BE551582, AA116092, BF063262, AA131002, BE466704, AI476250, AA626414, AL520254, BF722394, BF222968, AI638682, AI916526, BE048577, AA149442, AI686680, AI935593, AI201967, AA152451, AA101789, AA749172, AA116091, F24340, AI766979, BF445475, BE925564, AW958934, AI266738, AA897651, AI950455, BF917243, AW771964, BE163846, BE163852, BE163816, BE163659, AL533758, BE393501, AI089160, AA669642, AA488151, and AK022498.

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						AW003271, AL537767, Al363474, Al638061, BE855432, BF475260, Al653749, BE671333, BG056706, Al567434, AW235236, BF928391, R45347, BG055696, AAA78000, BA0001, BE551007, BE055096, AW129571, AT650600, AT000114, AT014624
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						AIZZ0130, F11755, AA398006, T85350, T65494, Z43537, AWZ35434, R18850, BF949034, BF948468, BG056329, BF337317, BF530877, AA757698, BF957193,
						AI919390, BF963555, F09414, T65418, BE698921, BF528815, R72245, AA436146,
						T07423, BF957139, AW103587, AW966245, C20849, T08857, AI928679, AF177909, AB046649, AF190699, AF190991, AC008746, and AC008746.
	HWLER32	174	732236	1 - 762	15 - 776	AV727577, AV727747, AV751004, BE466427, N72652, R11459, H93882, and H56112.
	HNFJE71	175	732600	1 - 525	15 - 539	BG177946, AA355750, and AL162742.
	ноина56	176	732902	1 - 660	15 - 674	R59681, BE739214, AV653666, F11197, AL119365, Y11395, AC007970, AJ295233, and AJ131111.
	HMSHT01	177	733800	1 - 1410	15 - 1424	AI300571, AW977948, BF059278, AI796954, AI147472, AA4443155, BE550035, BF351043, AI042026, AI681058, BF062259, AI131220, AI459011, BF059415, AI197871, BF754233, AV686297, AWAAAA28, AWAAAA28, AWAAAA28, AAAA315A, AI744542
						T07877, Al699053, AW473679, Al914905, R33958, C15945, AV727008, AV709207,
011					_	BE079652, BE079654, BE079653, BE706483, BE150729, BE150748, AW843293,
V						BE150732, AA326399, W38404, AA134959, T06598, AL031670, U91326, AP000008,
	HAPOM57	178	734582	1 - 493	15 - 507	R14061 RF508040 AI521991 AA765567 AW083045 AA704823 AK000761
	,					AK024668, and AF252293.
	HSLJK58	179	735584	1 - 1152	15 - 1166	AW378251, BF349814, AA687791, BF739001, AW378183, AA661723, H61383, T88677,
						AA443169, H62404, AW339864, AA458622, AA252063, AI129690, AW960791, AB006755, AB006758, AB006756, and AB006757.
	HSLHIL67	180	735747	1 - 716	15 - 730	BF919975, BF884698, AL042074, AL514302, AU126919, BE541256, AL044278,
						AI910012, AK025896, AB020699, AC003030, AL110250, and AK001349.
	HCEMF51	181	738228	1 - 1229	15 - 1243	BF346427, BE222972, AI096636, BF055324, AI202026, N36813, AI700474, BF057448, R86180. AA836670. AI950873, AA747515, AA004893, BF929417, F28396, W57715
			,	,		T09465, Al032682, BF929409, N52926, Al347667, H65793, N62496, BF819684,
			•			AA037619, BF928446, H96052, AA053692, AA335101, H66550, BG013276, W22675,
						W57695, AI742940, AA037618, AI023952, T30975, AI053553, T35776, AI205934,
						AAU99655, AA053250, AA323307, AA468760, AA468791, AI190834, D58267,
						AA847679, AA131306, K24607, A1337601, K34823, H80638, AA468740, N79396, AA004617. AW592215. W21585. BF507721. R24507. AA419572. C18786. N46031

					581	ι				
HKAAAI8	HMAFM0	HSDJN50		HLHCU82	HFASN59		HOEAU34	HCHCI12	HTHCV59	
189	188	187		186	185			183	182	
/41128	741055	740786		739503	739048		739003	738911	738569	
1-613	1 - 830	1 - 3289		1 - 589	1 - 472		1 - 933	1 - 644	1 - 380	
13 - 629	15 - 844	15 - 3303		15 - 603	15 - 486		15 - 947	15 - 658	15 - 394	
BE880883, Al14/438, AV715086, W81266, AU129709, Z43756, BE748304, AA076164, BF924130, AW958065, T30492, BE748368, AI312945, AA173504, AI826803, BE865502, AI984591, BE504702, BF963791, AI692671, BF033188, BG166939, AU151786, BE748892, AI691035, AW188216, BG257398, R31521, BF747729, BG252418,	AL135000, BE615660, BE615163, BF591100, BG031141, and AI004500.	C16311, AV744803, AA617936, C16288, C16312, C16299, AA378304, AI908796, T03242, D57193, A10277, and E00105.	R31521, R39748, BF747729, AA164492, AA164408, AA165265, BF963446, AW169232, AA362001, BF961893, AA164486, AW857222, AV715737, AA169420, AA286803, R24661, BE548583, AA173493, AL1049970, AK001522, AX014818, AF081567, AX015051, and AC004073.	W81266, AV715086, BE886885, AU129709, AI147438, AW958065, BE748304, BF924130, Z43756, AA076164, BG257398, BE748368, AW900549, T30492, BF963791	W72633, W85825, AW292870, AI566776, AW300800, AA704967, AW769522, AW270719, BF056849, AI933210, AI955865, AI139323, AI970515, AW008498, AA102083, AV707325, Z40506, AI634473, AI637497, BE855675, BF794262, BF794268, W21929, AL161954, and AB033092.	AA025315, AA626110, AI280349, AA969438, AW593805, AI672755, BG180786, BF827581, AA604068, AI419267, AW468928, BF827580, AI376319, AW878491, BE046125, D56320, AW601519, AA024562, AI459035, AW796648, AA905143, AW363984, BF794861, AW173597, T10751, AI858736, BF513839, AI583886, AL035423, AL050405, AF1518837, AL109799, and AF078865.	BE785762, BF034740, AW291367, AI952290, AI224111, AI685688, BE884900, AW589770, BE879572, AA938159, C75518, AI917337, AA515763, AI672754, AI671127	AI814233, BE789008, AI923689, H22593, AI924315, BE893732, AI672395, AW003558, AI139636, AW001296, AA341901, H52836, AA610203, BE292891, AI283870, AI950194, AA581497, AA772635, H20778, AA632417, AI982883, AW014256, H52837, AA401724, and AF191740.		T95645, N93701, AW272964, D20268, N53988, AV735414, AA367920, R97294, AA182424, H73748, T07569, BF997014, AL161725, AC011479, AC004847, AC005387, AP000512, AC002369, AL138759, AL031291, AC004999, AC005694, AC007666, AC018633, AL021391, AC011453, AC004212, AL132987, AC007934, AC002425, AF092852, AC000052, AC011475, AL096791, AC005098, AC009244, AL162430, AC004929, AC004867, AL034400, AC004971, AL049759, AB011099, Z84487, AC016554, AC012309, AC005527, AC009079, AL031657, AL133269, and AL133418.

				9811		
HSSJG62	HCFMF12	HTXED15	HUSGB32	HAGDA61 HFIIO11	HISCL61	
196	195	194	193	191	190	
744278	743426	743383	742690	741921 742518	741659	
1-690	1 - 467	1 - 429	1 - 827	1-479	1 - 470	
15 - 704	15 - 481	15 - 443	15 - 841	15 - 493 15 - 1427	15 - 484	
BE275282, BE794760, BF828003, BF792569, BE563242, BE048058, BE264558, BE889229, BF317326, BG178267, BE383623, BG169600, R84523, BE973549, AW963822, BE048059, W90260, BF238287, BG249725, BG169750, H24191, BE388727, BG254946, BF573589, BE503382, W15480, BE742218, BG169751, AA877146, AJ919155, AJ553967, AA731875, AJ219434, AJ418622, BE396041, AJ203295,	AI393223, AW137697, AV693339, BE551063, AI690236, BF972414, BE888288, BF382441, AV759369, BG034953, BE327195, BE895010, AV689381, AL536781, N89398, BE313508, AI159746, BE870346, AA838632, and AC022201.	AA528482, BG258358, AW580060, AW384232, AF231919, AB011111, AP000268, AP000102, AP000033, and AP001713.	AL520187, AL531563, AU132580, AU130799, BE882122, BE879478, AW160955, BE892389, N77502, T95386, AI272187, AU130009, T18576, AW856046, BF890940, BF891385, BF947987, R02677, AK001628, and AB007952.	N28519, AL527398, W20154, AW835447, and BF357837. AI806322, BE670799, N39385, AA969265, H12301, AW172368, AI635117, AW080319, A4806322, BE670799, N39385, AA969265, H12301, AW172368, AI635117, AW080319, AW073584, BE047461, AA071517, BE326673, BE672127, AW663394, N25209, AA934833, D60357, N73795, AW959297, AW591719, D60791, D60969, AA812106, AW074902, AA295000, AI913551, AA082339, Z45740, R40302, AV707810, AW449764, AW444857, AW297753, AV704312, AI472249, AI351162, H20050, AI268635, AW4439652, AI380998, AI400441, AI383449, AA887902, AI028684, AA884559, AA994343, BF222104, AI866171, AI272928, BE350212, AI739164, AA370008, AI245979, AA868556, AI686138, AI478243, AW268613, AW272433, AI826470, AI122571, BE044560, AI290558, AI961527, AI963996, AI638283, AW051659, BF115914, AI823779, AI572734, AW235551, AW300029, AA071493, W81652, AI6885265, N57910, AI400267, N99422, AI139467, BF223805, BE672889, BF223097, AW418679, AI969296, AA235834, H81010, AA722836, AA410211, R17911, AV683000, AI806668, AL117332, AL110196, AF220187, and AK025476.	BF981512, BF796581, BE085286, BF332149, AA931819, AA973582, AA429312, AW973153, AA536132, BF768310, AF103939, AL096717, AC011480, and AK026616.	AA740828, AA054507, AA481199, AI569223, BE858405, AA814187, R39748, BF513375, BF028590, BE856745, AA164409, AW900549, BE565650, AW169232, AA115066, AI808045, AI990010, AI951348, AA504621, R76739, BF961893, AA164487, BF033353, AA457403, BE548583, AW080568, H96862, AA169281, AI219805, AA811266, AI222468, AI672331, BE565131, AA287650, W67151, AI680571, H03576, AA328319, AA115461, AA362001, AA054370, AW613600, AI619506, R76400, AI978796, AW771812, AK001522, AL049970, AX014818, AF081567, AX015051, and AC004073.

				2811				
HSRFP52	HAJAN63	НАНЕА63			HCHMI51	HMDAG5	НГІНГ63	
202	201	200			199	198	197	
745408	744831	744726			744616	744453	744330	
1 - 1307	1 - 562	1 - 517			1-596	1 - 1308	1 - 753	
15 - 1321	15 - 576	15 - 531	·		15 - 610	15 - 1322	15 - 767	
AA789332, AW469963, AI925535, BE669814, AI925543, AV728348, BF732842, BE080915, BE670545, AI685010, AI690167, AA570056, AA470465, AW969303, AW770920, AI634463, T95424, AW003925, T95333, AW080646, BG179881, BF310921, BE617765, AI468303, AA312696, AW268987, AW962841, AA356443, BF690832, AA311608, AA682679, and BE962309.	BF211669, AA190358, N32552, AA233943, AW592432, AA453596, BF107263, BF802429, W03366, AA454131, and AL445493.	BE740305, BG008977, BE882802, BE732895, AA513222, BF769244, BE733610, BE900359, BE735361, BE731047, BE900400, BE280702, BE280260, T06970, BE279426, BF761620, BE891122, BE868552, BF811619, BE531137, BE410023, BE884431, BF038337, BE735209, BF035340, BE903339, BF839400, BE391834, BE246266, AP000356, AC009287, and AK025242.	BE019059, BE205763, BE336828, AA221020, AA082515, BF968775, AW293274, BF382705, AA191088, AA375893, BF037948, AW298594, BG164333, BF038894, AA093111, BF887454, AA580476, BE264102, BF981356, BE907690, BF206149, BE777904, AW247691, BE088651, AX013736, AJ276485, and AC011666.	BE254767, BE301933, BG116860, BE794941, BF205402, BE383589, BE905181, BE905182, AW160342, BE315054, BE793880, BE407320, BE740904, BE740140, BG026322, AL515122, BE383890, BE293920, BE741879, BE901598, AW249063, AW248313, BE299034, AL533320, AL5333414, BE390596, BE390600, AA173214,		AA885450, AI743800, N56997, AI434796, R54589, AA838013, AA972237, BF529879, BE7671116, AA034159, AI339777, N32915, N92879, AA568992, AA837929, AW602025, R39403, AW004682, AI589399, AA971945, H01140, N47381, N42057, BF993812, BE701705, BG011684, AA375505, AW963809, H72112, AA404257, H72214, W25626, BE872782, AA404707, BE698928, BE698972, R12941, AW889999, BF346329, and AB023186.	BF515002, AW182823, BG149845, AA010826, W95509, AI378016, AI420515, AI669104, W95412, AW297177, AA782437, AA011202, AI869000, AI702739, AA450119, AA889785, AW838926, AA2555554, AI291551, and AV710402.	AA926893, BE221867, W47042, AW295052, Z20937, AA375718, BE908386, W47041, AW881536, AW881535, Z44525, AA054582, AI651689, AW628222, AK000218, and A74618.

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 нснонз8	203	746390	1 - 890	15 - 904	BF035194, BE747413, BE742498, AW955574, BEZ78879, BEZ5037, AL036511, BF346168, BE745997, R35141, T09059, AW675162, R53360, W52313, BE832849, AW881228, D58601, BE613931, BF360548, AA227833, BE904123, AL529226, AW675247, T31282, BE707890, AW674880, BF762613, H08615, Z43881, BF958024, BE175335, BF956636, AB026894, and AL080083.
 HMSBS61	204	746583	1 - 1137	15 - 1151	AW962762, AA056485, AA256728, BF676173, AA044899, AA152263, BF724264, AA833748, AA761514, W67990, BG180100, AA533357, R25725, H14406, AV649750, AA370304, R21676, AA749192, BG253897, AW137063, AA332425, AA906615, AA609380, AA707774, AA767523, A1473912, N32366, BE046443, AJ250014, AB020656, AK000187, AK024348, AF161542, AX017216, and AK024212.
 HNFHK32	205	746584	1-999	15 - 1013	
 НТРСТ63	206	747208	1 - 543	15 - 557	BF205650, AW957197, AW954542, AV698342, AV688020, AA491052, T33088, AA287563, AA007576, Z45821, AW996840, BE539893, AW378973, AW378977, BE294195, AW663291, BE081286, AA188797, AW075763, AI907226, AK002065, AK023416, AK022659, AB019602, AB019494, AL137726, and AC008925.
 HE8NL29	207	750243	1 - 715	15 - 729	AC011077, AC011077, AC011077, AP002381, AP002381, AP002381, AP001016, AP001016, and AP001016.
 HTTFM66	208	750750	1 - 421	15 - 435	AU136930, AU124766, AA147472, BE262742, BF791639, AA490803, AL049745, AK001269, AL354612, and AL354613.
 НЕ9ЕМ20	209	751048	1 - 2794	15 - 2808	AL521540, AL521539, BF724865, AL043617, AW612138, BG026803, AA490652, H49906, BE884132, BF576441, AA211731, AW340639, AI863590, BE960872, BE463538, AA490653, BE071845, AW820883, AA181029, AI858386, BF197532, AI566009, AI953390, W69466, AW316992, AW070487, AI923866, AI935070, N73159, AI566750, AI417872, AI016324, AI090116, W15440, AV725301, AA186420, N20596, AI671349, N39139, AI265888, BE858974, AA913036, AI358573, AI628972, AI186732, BE790478, AI984363, AA704919, AA917601, W69550, BE934848, W39624, AI650674, BF476672, BE934846, AA894710, AA447125, AA099943, AI984949, R82637, AA693315, H09503, BE763632, H70345, T90178, AA349889, AI752629, H09502, AI471414, BE693723, AA369428, AI537286, BE693716, BE693708, R11238, AW821064, BF884852, BG007300, AA404558, AW131948, BE005812, AW966090, H70346, AL135226, AA367092, BF086478, AA853977, BE071864, D79253, BG015935, AA827603, AA369427, N46549, AA249763, T82987, R82682, BF111281, AW960699, D79320, AW361956, AW821060, R11186, T05974, AA187789, AW176530, BE810842, BE810771, BF007576, and AB018283

HISCQ44	210	751286	1 - 828	15 - 842	BF683169, AW752992; H50932, AL525434, F12992, BF793997, AU123305, AL525390, BF312571, AK001160, and AK023622.
НТБАИ79	211	751677	1 - 1598	15 - 1612	BF969492, AV648389, BF348172, BF979269, BF973457, AA579641, BF683887, BF980517, AV648431, AV757661, BE612779, AW969738, BE777860, AI149891, AI889233, AA659710, AA461487, AI028588, AA460132, AV648314, BF940060, AA113277, AA682750, BE874201, BF510365, AI421205, AI753378, AA985248, AA936668, BE872797, AI914588, AI493749, AA169113, AL449856, AA046575, AA633392, AA722409, AI752615, AA169112, BF514541, AI424537, AL449857, BE545191, AA233726, AW268600, AA516077, BF979800, AA483490, BF060885, BE907645, AW082930, AW815447, AI201331, AA074311, AW609606, AW609594, BE716177, AW601214, AI989665, BE925921, AV658092, T87841, AL449485, AL449487, AL449486, AI087102, AL031055, and AL133520.
HETAJ12	212	751735	1 - 526	15 - 540	AA336727, AI435182, AI811303, AI860491, AI635650, AI149504, AI128359, AL021878, AC007270, AL118502, AP000542, AL109941, AC007204, AC008770, AC011477, AC0007386, AL359218, AC006065, AC004985, AL138680, and AX013167.
HDABX16	213	752630	1 - 789	15 - 803	AL530978, BF206968, BF311229, AL518827, BE870189, BE261556, BE312224, BF312384, AL529296, BE621421, BE546607, BF979426, BF733995, BG033996, and AK025822.
HFEBM11	214	753105	1 - 446	15 - 460	BF035651, BG028710, BG110379, AW246245, BG035531, AA496102, W52780, BE560655, AA243109, AW675353, BF678739, AA884239, H85385, AA130095, BE812187, W04939, AV746713, BE617457, BE812189, BE840806, AA523735, BF750755, BE267207, BE770864, BE617905, N49855, AA744680, AK025402, AY007143, and AB012181.
HHGBS74	215	753235	1 - 1645	15 - 1659	AW853219, AW997066, BE243270, AA885705, BE711235, BE711238, BE867296, AA587619, AF114048, R92130, AA631738, AA573593, BE242758, AW629955, BE243140, AW275658, BF088850, BE243090, and AL136418.
НТААТ39	216	753289	1 - 1133	15 - 1147	AA446344, AA612751, AA298785, AA298780, AA298784, AA446524, AA298781, AA381170, AL357565, and AL357565.
HHSFO30	217	754184	1 - 305	15 - 319	AA099051, BE545794, AW966127, BF527400, AI834232, H73629, H73153, and AA249658.
HTAFE69	218	754529	1 - 486	15 - 500	AL109806.
HMSCM47	219	756579	1 - 1377	15 - 1391	BG122203, BG033920, BE259004, AL039961, BE275205, BE252695, BE391526, BE387863, AA683395, BE898764, AA159553, BE171959, BF983104, AA070288, AA345663, W39500, AA195153, BE895254, AA247937, AV660024, AI240936, AW972536, C03121, AW238459, AA036806, BE501409, BF026836, BF573216, AA195024, AA576054, AI700985, AI733547, AI668621, AI821455, AI820824, AA433955, AA600978, H39940, H44284, AA581968, AI082471, AW753990, AW451108,

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HHFHR59	HHFHU45	HLYEN32	HETLM70	
223	222	221	220	
757351	757207	756950	756676	
1 - 794	1 - 701	1 - 787	1-1126	
15 - 808	15 - 715	15 - 801	15 - 1140	
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HMAGC74	225	757601	1 - 424	15 - 438	BE856886, AI937631, AI150352, AA813461, BF756717, BE536240, BE261441, AU123413, R72672, BG120533, BE785322, T19147, BE719057, BE262082, AK025479,
HHFFR79	226	759851	1 - 1551	15 - 1565	BE984917, AV651048, AV651055, BF062093, AW604368, AA831712, N49477
	7.2				AIZ39505, AU160402, AU152742, BE206405, BF980447, BE545660, BE082703, BG176559, AA194860, AA127127, C17830, AV763218, BE019923, BF131534, AA732408, AW796614, AA999677, AA999662, AA376848, AIJ35648, AW242518, R23330, BE082918, AI678422, AU132460, AA348897, AA352059, AA767527, AU131664, BF691603, BF965186, BF369188, C05569, C05208, AK023119, AK023261, AU131664, AB108534, AB108605, AB168656, AV006655, AV066565, AV066565
HMGBP83	227	759888	1 - 1512	15 - 1526	AV759702, AA311915, AW972047, AA953779, AA521381, BF241426, AW995845, AI806245, AW361598, AI911194, AI580187, AA884217, AI872423, AI859991, AI60362, BG181066, BF725463, AI473536, AI538850, AI866469, AW054964, AI610362, BG181066, BF725463, AI473536, AI538850, AI866469, AW054964, AI366900, AI802542, AW118518, AI440239, AI923370, AI926790, BF812960, BE786043, AI886181, AI890907, AW148363, AI568138, AW051258, AI611738, AI8660003, AW983832, AI241923, BF814527, AL514829, AI570807, AW026882, BG222103, AI632408, AW302973, AW268060, AI635067, AI698391, BF812938, AW983703, BG116926, AW081036, AW983691, AI889189, AI866770, AL119319, AI866820, AW148294, AI619502, AI677796, AI627988, AI648454, AI915291, BF970652, AI433157, AI702073, AA806720, BF812961, AI633125, AI868931, AW152182, AI224671, AL513913, AL514843, AW008353, AI433976, AI288305, AI308035, AW983829, BF795712, BG2257535, BE963035, AI521596, AI640704, BG110517, BG260144, AI609409, BF817402, BG029667, AI624293, AI499463, AI559586, AI963846, BF727091, AI554821, AW858243, BG252929, AW151136, AI539771, AI932794, BE897632, AI537677, AI494201, AW051088, AI500659, AI824576, AI815232, AI801325, AL5144517, AI500706, AI491776, AI445237, AI620003, AW151138, AI521560, AI500662, AW172723, AI284509, AI889168, AI440263, AI564719, AI866573, AI633493, AI434256, AI1514773, AI770183, AI889168, AI4828661, A7284513, AI58766, BG031815, AI888118, AI888168, AI888661, A7284513, AI58766, BG031815, AI888118, AI88

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						AL137459, AB048954, AK026762, AB048974, AF130105, AK026630, AF116602, AF130082, E00617, E00717, E00778, E12747, X65873, AF155148, AL389935, AF
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•						AL117585, Y09972, AK027116, AK025524, AF090901, AL133113, AF130110, AL050393, AL122123, U49908, E03348, I03321, Y11587, U67958, AB050533.
						061795, AF151685, AL133016, <i>t</i> 050534, AF177336, U58996, AF
HAUBV24		228	760121	1 - 871	15 - 885	AW299924, BF591991, AA641636, BE552126, AI244707, AW582864, W02244, W31405, AV700677, W217264, AV00664, W700677, AV700677, W717264, W700677, AV700677, AV700
						H58485, W80643, AA813614, AI982595, H93564, N58338, AV684440, W04505, AI739425, BF063540, W04549, N73988, H93563, AC058787, AC024068, AC068906, and AC034109.
HWBAQ7		229	760146	1 - 442	15 - 456	AA078851, AW237409, and AL158198.
HRACE71	\vdash	230	760240	1 - 445	15 - 459	
HADGC71		231	760321	1 - 447	15 - 461	AV710229, BF085557, AL137201, U95825, Z75889, AB023196, and Z84467.
HSXFL85		232	760494	1 - 552	15 - 566	AL538220, AL538219, Al480012, H19676, R89656, BE466061, Al992259, AA308883,
						A193/402, A1633/54, AV748497, BF508330, BF316690, BE261557, A1094532, and AF225903.
HNGDQ71		233	760510	1 - 433	15 - 447	
нтолт28		234	760822	1 - 1278	15 - 1292	BG260462, BE966632, BE622688, AW963926, AI521877, AI334984, AI765363, AI617481 BE2774264 AA884520 AW4518270 BE7746047 BE2762044 AA884520 AW4518270 BE7746047 BE2762047 AIA5428 A
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						AA164285, BF350517, AW817775, N28593, AF235022, and N
HSDZF13		235	760890	1-910	15 - 924	N25951, AU119260, AL532307, AW009637, BF222719, BE675891, BE551994,
						AI417147, AI250808, AW512361, AL519408, AW298190, BE644632, AI870137, BE676177, AW978338, AI110587, BE798561, BF062834, AW977503, BE798584,
						AA768395, BE779351, AI289263, AA769533, AW613648, N26848, AW373450,
						AW297301, W15533, AI808400, AI079688, AW085089, BE176571, BE176567,
-						AW886581, BF698882, BE674076, AW972105, AW972128, AA677498, AI799484, BEA67007, AI360037, AI378075, AI47770, AI36333, AI681737, AI36333, BE31
	L	L				BE40/99/, AL30093/, AL3/80/3, Al43/2/0, AL303333, AL08122/, AL303339, BE218068,

<u></u>	52 BF084678, BE765056, AW996750, BF084642, BF838184, BF915389, AW965064,	15 - 1262	1 - 1248	765442	240	HGBAD15
L		15 - 449	1 - 435	764498	239	HDPHG57
<u> </u>		15 - 1206	1-1192	762023	238	HSXDG07
		15 - 848	1 - 834	761860	237	HE9RP73
<u></u>		15 - 1256	1 - 1242	761762	236	нтовнз9
	BF432688, AA627925, BE551356, AI806180, AI984311, AA483815, AW291197, BE294231, AW269239, BE718166, AI300955, BE328888, BG163611, AI129095, BE176524, AW410019, BF993298, AA280184, N42781, BF223391, AW067835, BE218572, AA807144, AI681511, BE707019, BF811910, BG015002, BF026769, BE072453, BE072468, AA748383, AW856033, BG014996, BE072360, BE072414, BE072362, BF063631, AI696003, BE934565, AA479673, BF026313, BE934584, AA281561, BE548839, AA486902, BG013649, T07608, AW852099, AW886779, AW845287, AW845295, T84272, AI126668, AI126371, AL135056, AW812632, BE884938, BG013650, BF082672, BF154756, AA972313, AW852117, BG002895, AI082332, BF345865, BF928424, BF803056, BF327256, AL353194, AK021791, and AL390136.					·

HEGBB78	нвли66	HPMGQ75		HANGD38	HOEEP07	
246	245	244		242	241	
768346	767674	767356		766868	766074	
1 - 1946	1-777	1 - 1144		1 - 815	1 - 1425	
15 - 1960	15 - 791	15 - 1158		15 - 829	15 - 1439	
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HKAOJ07	HDAAE77	HMAIT58	HE8UD19	HAIDO95	НАЛВСОЛ ННОСР75
253	252	251	250	249	247 248
772639	772217	771900	771648	771350	768776 769003
1 - 547	1-1516	1 - 426	1-973	1 - 1405	1-369
15 - 561	15 - 1530	15 - 440	15 - 987	15 - 1419	15 - 383 15 - 765
BF311525, AI537814, N33624, AI254765, AA317406, R99735, AB039887, AP001628,	AW961900, H10235, AA310824, R67302, T08985, R17955, AV746798, F05576, R60879, AB046764, Y18276, AF072372, AL137748, and AF072371.	AV712950, AV716955, AV715751, AV716324, AV712255, AW016896, AV717365, N77056, AA333542, AW662189, AA363393, and AL390195.	BF692975, BF980357, BF970789, AW995310, BF943459, AW474322, AA609972, F27451, AW748103, AI491737, BF920158, AW675385, F37347, BF217122, AW387654, BF954266, C01106, BF959308, BF057458, BF954263, AF117829, AC074178, AF061326, and AF069291.	BF362262, AA434293, AL524821, AW901366, AW664063, Al919247, BG007354, AW806545, AK001887, Al249976, AC006966, and AB025580. BG257943, BG165269, BG259172, Al424802, Al916783, BE910430, Al819053, Al816777, AW272605, Al590692, Al479430, AW514278, AA551171, BF940155, BF445111, AW629154, BE559548, Al735281, AL571324, Al478759, Al393954, AA721080, AL524155, BE503212, AA810185, Al097009, BE390809, AA284628, Al123017, Al261506, Al767266, BE327222, Al681243, AW014194, AW160735, AW014209, AW008652, AA284635, AW376166, Al458147, Al476200, AW376156, BF128669, Al093995, Al143101, AA732032, AW025657, Al308770, AA234937, AA252222, AA242937, BF221723, Al276128, Al360495, AA804455, AW137536, AW376188, AA831992, AA279678, AA705403, AW386011, AA234936, BG231189, Al082377, AW173743, AA371418, C16269, AA169648, Al082246, Al434042, Al094553, AA295327, AA169828, Al094458, AA282437, Al870814, AA204686, Al523829, AW376165, AA280609, Al015800, AW473793, BF773007, AW376186, AA207071, AA207070, AW768513, T10533, BF247348, N98898, AK000654, AC004067, and AC004068.	Al472317, AA868341, AW977034, Al264599, Al095500, Al360329, BF939207, AA847485, AA431260, AA236681, Al380193, Al862575, Al800949, AA158767, AA6625441, AA565015, AA609030, AA099081, Al800942, AA847586, W76503, AA057283, AA058728, AI475452, AA481052, W72555, AA046202, R43719, AA533026, AI150119, H64004, Al077622, AW449914, AA046282, BG150675, BF446183, T52803, Z20632, AA721115, H64054, AK024637, A75250, AL109914, and AL359994. BE867540, AW272260, AI378661, AI871902, AW957020, AA131886, AA193449, H06773, AI349551, AU138307, AA131887, AA193682, R52308, AL513784, F11415, H64261, AA016110, AL524822, BG122385, AA059138, AA299723, AW363105, F06646, BF986163, C06172, AW754048, F05102, AV733911, R25576, H64260, R77194, AW363124, BF446269, AI949988, W39604, H15390, AW024813, BF803600, BG035134,

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HAGEK19	HELDG78	HDTFC73 HDTF132 HLQCY70	
258	257	254 255 256	
774276	773740	772840 773040 773347	
1 - 706	1 - 307	1 - 1291 1 - 524 1 - 360	
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	15 - 1197	1 - 1183	783318	282	нмекн64
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AA315077 N75832 RE12610A AV7550A5 RE030653 AA3157A1 AA31570A					

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		AF097026, AL137064, AC007394, AF290421, AC002992, and AL078590.
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and AA813674.	AA429918, and AA813674	15 - 710	1 - 696	785958	295	HTEPF14
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787587	787466				787450												787263										786878						
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15 - 1307	15 - 609				15 - 580												15 - 1343										15 - 2025						
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	,					AW663287, AI816805, AA643494, AA643488, AI682727, AI619999, BE813101, T83597, AW265138, AA724224, and AF001175.
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	∞					H16029, H15919, BE812792, R50588, BF903474, H10920, T19093, BE815585, RF9071472, RF907459, N72528, AR018268, and AK023218
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1 - 1037	1-518	1 - 499	
15 - 1051	15 - 532	15 - 513	
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1161							
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	1 - 1250	1 - 470	1 - 491	1 - 1719	1 - 432	1 - 902	
	15 - 1264	15 - 484	15 - 505	15 - 1733	15 - 446	15-916	
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_	15 - 825	1-811	792627	322	HETJA44
AA173831, AA034149, AW962438, AI925174, AA173779, AA366630, AA034150, AA360960, BF309923, AF041449, AF099929, and AK022448.	15 - 575	1 - 561	792575	321	HTEFV95
	15 - 1917	1-1903	792393	320	HOFMV90
_	15 - 677	1 - 663	791839	319	HE80X93
AK027204, U00763, AL049430, AL049464, AK026959, AK026532, AF130077, AF225424, AF097996, AJ238278, AL049300, AB052191, AF119871, AF177336, AK000323, AL117435, AX026824, AX026823, A58524, A58523, AF260566, A08909, AK026086, AF130087, AK025414, AF183393, AX042059, Z82022, AK025967, AL122110, AF130099, AB052200, AK026353, AF271350, A12297, AF067728, AK026480, AF116610, AX015915, U72620, AK000614, AF118094, A03736, AK024524, AL137271, AL122098, AL133113, AK000432, X70685, AK025524, AF175983, AL137538, AF130110, AL050024, AK027164, AK025484, R16149, R37133, H14818, H92203, N66104, N98707, AA027312, and AA227443.					

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HAJBT15	324	792938	1 - 1382	15 - 1396	AU131406, AU141725, BG163897, BF347918, BF346907, AU122008, BF975998, BE891861, BF663133, BF664526, AI819377, BG164313, BE617220, BF983352,
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					AI338151, BF927951, AI671891, AI565261, BE392966, BE545940, AA934966,
					BF772163, T91185, T53324, T84157, AK022317, and L31783.
HDBAD63	325	793148	1 - 1126	15 - 1140	BE741265, BE312413, BE745699, BE733480, BE737309, BG118733, BF311514,
					BG120868, BE513907, BE780900, BG163371, AW071761, BF206573, BE269413,
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					BE269640, BE397496, AA308486, AV710504, AI359438, W17314, AW006373,
					BE543973, AA748535, AA613105, AA858196, AA552239, AA808351, AA865656,
					AA252191, AI206006, AA307614, AI362958, W92610, AA856552, AI223781, AI318256,
					AA317879, H63355, AA748698, AI313332, AI363160, H08800, AI349795, AI348900,
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					H87140, BE789797, AI640394, AW296500, AI220261, AI246242, BF438631, AA356102,
					AA767679, AA761033, R36895, AI358153, AW007922, AA811788, AA992865,
					AA299716, AA953952, BE514515, BF214503, AW451143, F30133, BE041924,
					BE535691, BF215139, F36531, AA613122, AI583498, AA299992, AA299715,
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					BG236825, AI305300, AI308609, BE042236, AI318574, AI345152, C02485, AI311246,
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HE8QH85	326	793204	1 - 532	15 - 546	BG033816, BE906522, BF688514, BE727928, BF038689, BF315341, BF341913,
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			<u> </u>				HE6BJ49			TAICU32	COLLEGIAN			
							328			120	333			
							793433			193313	703373			
							1 - 1949		_	1 1 100	1 1136	· <u>-</u>		
-	,						15 - 1963			17 - 1170	15 1150		,	
N66494, N57501, AA860306, W68441, BE931918, AI282140, AI674801, AV651160, AV649813, AA234068, N91425, AA806011, AW204791, AA614788, AI368226, AA164980, T08107, AA227990, AI284230, BF028962, H97585, AA480805, AW085005, AW768944, H06332, AI636532, AA204754, W47140, AI375979, H18564, R17372,	A1823697, AA448220, BF243182, BF223907, AA227816, AA134131, A1041884, AV708050, A1422542, A1040174, AV655144, A1079649, T79246, BF438880, W58509, AV649699, N52069, AW419337, A1264008, AW296596, AA448431, A1811217, BE220570, AA349640, A1341524, AV757359, H92809, N72857, AA234446, AW050477,	BE718224, AI985477, AW080021, AI458412, AA310505, AI090025, AL532665, AA101072, AA883532, AW467740, AI446055, BE178179, AI888105, W58544, BE543902, AI264004, AW954289, AA453538, AA082742, AA164718, AA642442, BF575440, AI310082, AW162771, AA279735, AW296515, AA448291, AI139289,	BF966456, AI347915, AI889382, AW173635, AI423124, AA725548, AW172746, AI140084, AA453099, AA236583, AI458404, AI400126, AI131485, AI436783, AI936016, BF576243, AW662463, BF240101, AW196824, AW473640, AI694031, BF512775,	AI633143, BF197142, BE178004, AI816930, AI905561, AI096795, BE178023, AA447266, AW273999, AA234459, AI703330, AA706011, AI829576, BE936920,	AA403195, AW028038, AI820046, AI808798, BE395601, AI094821, AA703293, BF979508, BE834481, BE779514, BE178346, BE178031, BE178177, BE539269,	AA524019, BF341382, AI140326, AL515465, AV756884, AV649635, BF979747, AI457836, BG028526, BE884906, AI813685, BE789320, AV711501, AI185629,	AL515827, AL515826, AL515466, AL119219, BG105611, BE780167, AV715361, AL538016, AV650881, BF980128, BF980045, AV650886, BG257556, BE783853,	ALZ 19622, ALG 38823, ALG /1554, BG05 /262, BF50 /602, BF /36 /67, A W +11026, AA894653, AA374390, and AL 530279.	AW964098, AL528560, AA535031, AI628434, BE677815, AI911127, BF001389, BE669506 AW275368 AW083365, AI459053, AI,529164, AI700697, AW991515.	BG177191, AL524642, AL524641, AL530280, AL525941, AL524710, AW411029,	AF126181, U92544, AF128527, Z98046, AJ277114, AF148815, A75460, and AF320907.	BE891065, BE939262, AL517207, K08104, T84898, N45490, BE870288, AL530651, BF934105, T32049, AW379679, BG167755, BE720471, AA225936, AF128528,	BE394599, BE730613, BF755208, BE930119, BF093266, N56257, AL526677, BE932377,	AW361222, 132095, D55453, BF793313, BF969633, 135190, ZZ0579, AL519116, RF680807 RF340874 T08329 RF948641 RF299943 RF969734 AL533092, AA378552.

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HBGMW9	HPIAX11	НДРВЈ94	нгвс92
333	332	331	330
795325	794354	794297	793632
1 - 625	1-1369	1 - 469	1-1130
15 - 639	15 - 1383	15 - 483	15 - 1144
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	15 - 767	1 - 753	799889	338	HAMGW1
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	2001
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15 - 1984	15 - 820
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AA459837, AW953466, AW957134, T09073, BE734978, AW838037, AW608110, Z42773, AF053369, AX003081, AX003083, AB022317, AB021292, AC006543, AC006544, AC007387, AX003085, AB002563, AB047604, AC003061, and AB022315.	15 - 671	1 - 657	811268	353	HMEJR75
	15 - 781	1 - 767	810899	352	Н ДРОМ13
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	15-1115	1-1101	810406	349	HSLGA19

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815669	
1 - 1452	
15 - 1466	
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НЕ9РС92	HDFQA53	HSVCA10	НДТЈТ12	·
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